# Accountancy

## Partnership Accounts

*Textbook for Class XII*

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12117

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**OFFICES OF THE PUBLICATION DIVISION, NCERT**

NCERT Campus
Sri Aurobindo Marg
**New Delhi 110 016** **Phone : 011-26562708**

108, 100 Feet Road
Hosdakere Halli Extension
Banashankari III Stage
**Bengaluru 560 085** **Phone : 080-26725740**

Navjivan Trust Building
P.O.Navjivan
**Ahmedabad 380 014** **Phone : 079-27541446**

CWC Campus
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**Kolkata 700 114** **Phone : 033-25530454**

CWC Complex
Maligaon
**Guwahati 781 021** **Phone : 0361-2674869**

**Publication Team**

| | |
|---|---|
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# Foreword

The *National Curriculum Framework* (NCF), 2005, recommends that children's life at school must be linked to their life outside the school. This principle marks a departure from the legacy of bookish learning which continues to shape our system and causes a gap between the school, home and community. The syllabi and textbooks developed on the basis of NCF signify an attempt to implement this basic idea. They also attempt to discourage rote learning and the maintenance of sharp boundaries between different subject areas. We hope these measures will take us significantly further in the direction of a child-centred system of education outlined in the *National Policy on Education* (1986).

The success of this effort depends on the steps that school principals and teachers will take to encourage children to reflect on their own learning and to pursue imaginative activities and questions. We must recognise that, given space, time and freedom, children generate new knowledge by engaging with the information passed on to them by adults. Treating the prescribed textbook as the sole basis of examination is one of the key reasons why other resources and sites of learning are ignored. Inculcating creativity and initiative is possible if we perceive and treat children as participants in learning, not as receivers of a fixed body of knowledge.

These aims imply considerable change in school routines and mode of functioning. Flexibility in the daily time-table is as necessary as rigour in implementing the annual calendar so that the required number of teaching days are actually devoted to teaching. The methods used for teaching and evaluation will also determine how effective this textbook proves for making children's life at school a happy experience, rather than a source of stress or boredom. Syllabus designers have tried to address the problem of curricular burden by restructuring and reorienting knowledge at different stages with greater consideration for child psychology and the time available for teaching. The textbook attempts to enhance this endeavour by giving higher priority and space to opportunities for contemplation and wondering, discussion in small groups, and activities requiring hands-on experience.

The National Council of Educational Research and Training (NCERT) appreciates the hard work done by the textbook development committee responsible for this book. We wish to thank the Chairperson of the advisory

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group in Social Sciences Professor Hari Vasudevan and the Chief Advisor for this book, Professor R.K. Grover, (Retd.) Director, School of Management Studies (IGNOU), New Delhi for guiding the work of this committee. Several teachers contributed to the development of this textbook; we are grateful to their principals for making this possible. We are indebted to the institutions and organisations which have generously permitted us to draw upon their resources, material and personnel. We are especially grateful to the members of the National Monitoring Committee, appointed by the Department of Secondary and Higher Education, Ministry of Human Resource Development under the Chairpersonship of Professor Mrinal Miri and Professor G.P. Deshpande, for their valuable time and contribution. As an organisation committed to the systemic reform and continuous improvement in the quality of its products, NCERT welcomes comments and suggestions which will enable us to undertake further revision and refinement.

*Director*
National Council of Educational
Research and Training

New Delhi
*20 November 2006*

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# Rationalisation of Content in the Textbooks

In view of the COVID-19 pandemic, it is imperative to reduce content load on students. The National Education Policy 2020, also emphasises reducing the content load and providing opportunities for experiential learning with creative mindset. In this background, the NCERT has undertaken the exercise to rationalise the textbooks across all classes. Learning Outcomes already developed by the NCERT across classes have been taken into consideration in this exercise.

**Contents of the textbooks have been rationalised in view of the following:**

- Overlapping with similar content included in other subject areas in the same class
- Similar content included in the lower or higher class in the same subject
- Difficulty level
- Content, which is easily accessible to students without much interventions from teachers and can be learned by children through self-learning or peer-learning
- Content, which is irrelevant in the present context

**This present edition, is a reformatted version after carrying out the changes given above.**

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# THE CONSTITUTION OF INDIA

## PREAMBLE

**WE, THE PEOPLE OF INDIA,** having solemnly resolved to constitute India into a [1]**[SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC]** and to secure to all its citizens :

**JUSTICE,** social, economic and political;

**LIBERTY** of thought, expression, belief, faith and worship;

**EQUALITY** of status and of opportunity; and to promote among them all

**FRATERNITY** assuring the dignity of the individual and the [2][unity and integrity of the Nation];

**IN OUR CONSTITUENT ASSEMBLY** this twenty-sixth day of November, 1949 do **HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION.**

---

1. Subs. by the Constitution (Forty-second Amendment) Act, 1976, Sec.2, for "Sovereign Democratic Republic" (w.e.f. 3.1.1977)
2. Subs. by the Constitution (Forty-second Amendment) Act, 1976, Sec.2, for "Unity of the Nation" (w.e.f. 3.1.1977)

# Textbook Development Committee

**Chairperson, Advisory Committee for Textbooks in Social Sciences at Senior Secondary Level**

Hari Vasudevan, *Professor,* Department of History, University of Calcutta, Kolkata

**Chief Advisor**

R. K. Grover, *Professor,* (Retd.), School of Management Studies, IGNOU, New Delhi

**Members**

D. K. Vaid, *Professor,* Department of Education in Social Sciences and Humanities, NCERT, New Delhi

Deepak Sehgal, *Reader,* Deen Dayal Upadhaya College, Delhi University

H.V. Jhamb, *Reader,* Khalsa College, Delhi University, Delhi

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Obul Reddy, *Professor,* Department of Commerce, Osmania University, Hyderabad, Andhra Pradesh

Rajesh Bansal, *PGT (Commerce),* Rohatagi A.V. Senior Secondary School, Nai Sarak, New Delhi

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S. C. Hussain, *Professor,* Department of Commerce, Jamia Millia Islamia, New Delhi

S. S. Sehrawat, *Assistant Commissioner,* Kendriya Vidyalaya Sangathan, Chandigarh

Sudhir Sapra, *PGT (Commerce),* Kendriya Vidyalaya, Sultanpur, U.P.

Vanita Tripathi, *Lecturer,* Department of Commerce, Delhi School of Economics, Delhi

**Member-coordinator**

Shipra Vaidya, *Professor,* Department of Education in Social Sciences, NCERT, New Delhi.

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# Accounting for Partnership: Basic Concepts

# 1

**LEARNING OBJECTIVES**

*After studying this chapter, you will be able to :*

- *Define partnership and list its essential features;*
- *Identify the provisions of the Indian Partnership Act 1932 that are relevant for accounting;*
- *Prepare partners' capital accounts under fixed and fluctuating capital methods;*
- *Explain the distribution profit or loss among the partners and prepare the Profit and Loss Appropriation Account;*
- *Calculate interest on capital and drawing under various situations;*
- *Explain how guarantee for a minimum amount of profit affects the distribution of profits among the partners;*
- *Make necessary adjustments to rectify the past errors in partners capital accounts; and*
- *Prepare final accounts of a partnership firm;*

You have learnt about the preparation of financial statements for a sole proprietary concern. As the business expands, one needs more capital and larger number of people to manage the business and share its risks. In such a situation, people usually adopt the partnership form of organisation. Accounting for partnership firms has it's own peculiarities, as the partnership firm comes into existence when two or more persons come together to establish business and share its profits. On many issues affecting distribution of profits, there may not be any specific agreement between the partners. In such a situation the provisions of the Indian Partnership Act 1932 apply. Similarly, calculation of interest on capital, interest on drawings and maintenance of partners capital accounts have their own peculiarities. Not only that a variety of adjustments are required on the death of a partner or when a new partner is admitted and so on. These peculiar situations need specific treatment in accounting that need to be clarified.

The present chapter discusses some basic aspects of partnership such as distribution of profit, maintenance of capital accounts, etc. The treatment of situations like admission of partner, retirement, death and dissolution have been taken up in the subsequent chapters.

## 1.1 Nature of Partnership

When two or more persons join hands to set up a business and share its profits and losses, they are said to be in partnership. Section 4 of the Indian Partnership Act 1932 defines partnership as the

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*'relation between persons who have agreed to share the profits of a business carried on by all or any of them acting for all'*.

Persons who have entered into partnership with one another are individually called 'partners' and collectively called 'firm'. The name under which the business is carried is called the 'firm's name'. A partnership firm has no separate legal entity, apart from the partners constituting it. Thus, the essential features of partnership are:

1. *Two or More Persons:* In order to form partnership, there should be at least two persons coming together for a common goal. In other words, the minimum number of partners in a firm can be two. There is however, a limit on their maximum number. By virtue of Section 464 of the Companies Act 2013, the Central Government is empowered to prescribe maximum number of partners in a firm but the number of partners can not be more than 100. The Central government has prescribed the maximum number of partness in a firm to be 50.
2. *Agreement:* Partnership is the result of an agreement between two or more persons to do business and share its profits and losses. The agreement becomes the basis of relationship between the partners. It is not necessary that such agreement is in written form. An oral agreement is equally valid. But in order to avoid disputes, it is preferred that the partners have a written agreement.
3. *Business:* The agreement should be to carry on some business. Mere co-ownership of a property does not amount to partnership. For example, if Rohit and Sachin jointly purchase a plot of land, they become the joint owners of the property and not the partners. But if they are in the business of purchase and sale of land for the purpose of making profit, they will be called partners.
4. *Mutual Agency:* The business of a partnership concern may be carried on by all the partners or any of them acting for all. This statement has two important implications. First, every partner is entitled to participate in the conduct of the affairs of its business. Second, that there exists a relationship of mutual agency between all the partners. Each partner carrying on the business is the principal as well as the agent for all the other partners. He can bind other partners by his acts and also is bound by the acts of other partners with regard to business of the firm. Relationship of mutual agency is so important that one can say that there would be no partnership, if the element of mutual agency is absent.
5. *Sharing of Profit:* Another important element of partnership is that, the agreement between partners must be to share profits and losses of a business. Though the definition contained in the Partnership Act describes partnership as relation between people who agree to share the profits of a business, the sharing of loss is implied. Thus, sharing of profits and

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losses is important. If some persons join hands for the purpose of some charitable activity, it will not be termed as partnership.

6. *Liability of Partners:* Each partner is liable jointly with all the other partners and also severally to the third party for all the acts of the firm done while he is a partner. Not only that the liability of a partner for acts of the firm is also unlimited. This implies that his private assets can also be used for paying off the firm's debts.

## 1.2 Partnership Deed

Partnership comes into existence as a result of agreement among the partners. The agreement can be either oral or written. The Partnership Act does not require that the agreement must be in writing. But wherever it is in writing, the document, which contains terms of the agreement is called 'Partnership Deed'. It generally contains the details about all the aspects affecting the relationship between the partners including the objective of business, contribution of capital by each partner, ratio in which the profits and the losses will be shared by the partners and entitlement of partners to interest on capital, interest on loan, etc.

The clauses of partnership deed can be altered with the *consent of all the partners***.** The deed should be properly drafted and prepared as per the provisions of the 'Stamp Act' and preferably registered with the Registrar of Firms.

**Contents of the Partnership Deed**

The Partnership Deed usually contains the following details:

- Names and Addresses of the firm and its main business;
- Names and Addresses of all partners;
- Amount of capital to be contributed by each partner;
- The accounting period of the firm;
- The date of commencement of partnership;
- Rules regarding operation of Bank Accounts;
- Profit and loss sharing ratio;
- Rate of interest on capital, loan, drawings, etc;
- Mode of auditor's appointment, if any;
- Salaries, commission, etc, if payable to any partner;
- The rights, duties and liabilities of each partner;
- Treatment of loss arising out of insolvency of one or more partners;
- Settlement of accounts on dissolution of the firm;
- Method of settlement of disputes among the partners;
- Rules to be followed in case of admission, retirement, death of a partner; and
- Any other matter relating to the conduct of business.

Normally, the partnership deed covers all matters affecting relationship of partners amongst themselves. However, if there is no express agreement on certain matters, the provisions of the Indian Partnership Act, 1932 shall apply.

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### 1.2.1 Provisions of Partnership Act Relevant for Accounting

The important provisions affecting partnership accounts are as follows:

(a) *Profit Sharing Ratio:* If the partnership deed is silent about the profit sharing ratio, the profits and losses of the firm are to be shared equally by partners, irrespective of their capital contribution in the firm.

(b) *Interest on Capital:* No partner is entitled to claim any interest on the amount of capital contributed by him in the firm as a matter of right. However, interest can be allowed when it is expressly agreed to by the partners. Thus, no interest on capital is payable if the partnership deed is silent on the issue.

(c) *Interest on Drawings:* No interest is to be charged on the drawings made by the partners, if there is no mention in the Deed.

(d) *Interest on Loan:* If any partner has advanced loan to the firm for the purpose of business, he/she shall be entitled to get an interest on the loan amount at the rate of 6 per cent per annum.

(e) *Remuneration for Firm's Work:* No partner is entitled to get salary or other remuneration for taking part in the conduct of the business of the firm unless there is a provision for the same in the Partnership Deed.

Apart from the above, the Indian Partnership Act specifies that subject to contract between the partners:

(i) If a partner derives any profit for him/her self from any transaction of the firm or from the use of the property or business connection of the firm or the firm name, he/she shall account for the profit and pay it to the firm.

(ii) If a partner carries on any business of the same nature as and competing with that of the firm, he/she shall account for and pay to the firm, all profit made by him/her in that business.

**Test your Understanding – I**

1. Mohan and Shyam are partners in a firm. State whether the claim is valid if the partnership agreement is silent in the following matters:
   (i) Mohan is an active partner. He wants a salary of Rs. 10,000 per year;
   (ii) Shyam had advanced a loan to the firm. He claims interest @ 10% per annum;
   (iii) Mohan has contributed Rs. 20,000 and Shyam Rs. 50,000 as capital. Mohan wants equal share in profits.
   (iv) Shyam wants interest on capital to be credited @ 6% per annum.
2. State whether the following statements are true or false:
   (i) Valid partnership can be formulated even without a written agreement between the partners;
   (ii) Each partner carrying on the business is the principal as well as the agent for all the other partners;
   (iii) Maximum number of partners can be 50;
   (iv) Methods of settlement of dispute among the partners can't be part of the partnership deed;

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(v) If the deed is silent, interest at the rate of 6% p.a. would be charged on the drawings made by the partner;
(vi) Interest on partner's loan is to be given @ 12% p.a., if the deed is silent about the rate.

## 1.3 Special Aspects of Partnership Accounts

Accounting treatment for partnership firm is similar to that of a sole proprietorship business with the exception of the following aspects:

- Maintenance of Partners' Capital Accounts;
- Distribution of Profit and Loss among the partners;
- Adjustments for Wrong Appropriation of Profits in the Past;
- Reconstitution of the Partnership Firm; and
- Dissolution of Partnership Firm.

The first three aspects mentioned above have been taken up in the following sections of this chapter. The remaining aspects have been covered in the subsequent chapters.

## 1.4 Maintenance of Capital Accounts of Partners

All transactions relating to partners of the firm are recorded in the books of the firm through their capital accounts. This includes the amount of money brought in as capital, withdrawal of capital, share of profit, interest on capital, interest on drawings, partner's salary, commission to partners, etc.

There are two methods by which the capital accounts of partners can be maintained. These are: (i) fixed capital method, and (ii) fluctuating capital method. The difference between the two lies in whether or not the transactions other than addition/withdrawal of capital are recorded in the capital accounts of the partners.

(a) *Fixed Capital Method:* Under the fixed capital method, the capitals of the partners shall remain fixed unless additional capital is introduced or a part of the capital is withdrawn as per the agreement among the partners. All items like share of profit or loss, interest on capital, drawings, interest on drawings, etc. are recorded in a separate accounts, called Partner's Current Account. The partners' capital accounts will always show a credit balance, which shall remain the same (fixed) year after year unless there is any addition or withdrawal of capital. The partners' current account on the other hand, may show a debit or a credit balance. Thus under this method, two accounts are maintained for each partner viz., capital account and current account, While the partners' capital accounts shall always appear on the liabilities side in the balance sheet, the partners' current account's balance shall be shown on the liabilities side, if they have credit balance and on the assets side, if they have debit balance.

The partner's capital account and the current account under the fixed capital method would appear as shown in Fig.1.1.

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**Partner's Capital Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Bank (permanent withdrawal of capital) | | xxx | | Balance b/d (opening balance) | | xxx |
| | Balance c/d (closing balance) | | xxx | | Bank (fresh capital introduced) | | xxx |
| | | | xxx | | | | xxx |

**Partner's Current Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d (in case of debit opening balance) | | xxx | | Balance b/d (in case of credit opening balance) | | xxx |
| | Drawings | | xxx | | Salary | | xxx |
| | Interest on drawings | | xxx | | Commission | | xxx |
| | Profit & Loss a/c | | xxx | | Interest on capital | | |
| | | | | | Profit & Loss Appropriation | | xxx |
| | Balance c/d (in case of credit closing balance) | | xxx | | (share of profit) | | |
| | | | | | Balance c/d (in case of debit closing balance) | | xxx |
| | | | **xxxx** | | | | **xxxx** |

**Fig. 1.1:** *Proforma of Partner's Capital and Current Account under Fixed Capital Method.*

(b) *Fluctuating Capital Method:* Under the fluctuating capital method, only one account, i.e. capital account is maintained for each partner. All the adjustments such as share of profit and loss, interest on capital, drawings, interest on drawings, salary or commission to partners, etc are recorded directly in the capital accounts of the partners. This makes the balance in the capital account to fluctuate from time to time. That's the reason why this method is called fluctuating capital method. In the absence of any instruction, the capital account should be prepared by this method.

The proforma of capital accounts prepared under the fluctuating capital method is given in Fig.1.2.

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**Partner's Capital Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d (in case of debitclosing balance) | | xxx | | Balance b/d (in case of credit opening balance) | | xxx |
| | Drawings | | | | Bank (fresh | | xxx |
| | Interest on drawings | | xxx | | capital introduced) | | |
| | Profit and Loss | | xxx | | Salaries | | xxx |
| | A/c | | | | Interest on capital | | xxx |
| | (for share of loss) | | | | Profit and Loss | | xxx |
| | Balance c/d (in case of credit closing balance) | | xxx | | Appropriation (for share of profit) | | |
| | | | | | Balance b/d (in case of debit closing balance) | | xxx |
| | | | **xxxx** | | | | **xxxx** |

**Fig. 1.2:** *Proforma of Partner's Capital Account under Fluctuating capital Method.*

### *1.4.1 Distinction between Fixed and Fluctuating Capital Accounts*

The main points of differences between the fixed and fluctuating capital methods can be summed up as follows:

| *Basis of Distinction* | *Fixed Capital* | *Fluctuating Capital* |
|---|---|---|
| (i) Number of accounts | Under this method, two separate accounts are maintained for each partner viz., 'capital account' and 'current account'. | Each partner has one account, i.e. capital account, under this method |
| (ii) Items related to deed | Drawings, salary,interest on capital,etc. are posted (transfered) in the current accounts and not in the capital accounts. | All adjustments for drawings, salary interest on capital, etc., are posted (transfered) in the capital accounts, |
| (iii) Fixed balance | The capital account balance remain unchanged unless there is addition to or withdrawal of capital. | The balance of the capital account fluctuates from year to year |
| (iv) Credit balance | The capital accounts always show a credit balance. | The capital account may sometimes show a debit balance. |

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## 1.5 Distribution of Profit among Partners

The profits and losses of the firm are distributed among the partners in an agreed ratio. However, if the partnership deed is silent, the firm's profits and losses are to be shared equally by all the partners.

You know that in the case of sole partnership the profit or loss, as ascertained by the profit and loss account is transferred to the capital account of the proprietor. In case of partnership, however, certain adjustments such as interest on drawings, interest on capital, salary to partners, and commission to partners are required to be made. For this purpose, it is customary to prepare a Profit and Loss Appropriation Account of the firm and ascertain the final figure of profit and loss to be distributed among the partners, in their profit sharing ratio.

### *1.5.1 Profit and Loss Appropriation Account*

Profit and Loss Appropriation Account is merely an extension of the Profit and Loss Account of the firm. It shows how the profits are appropriated or distributed among the partners. All adjustments in respect of partner's salary, partner's commission, interest on capital, interest on drawings, etc. are made through this account. It starts with the net profit/net loss as per Profit and Loss Account. The journal entries for preparation of Profit and Loss Appropriation Account and making various adjustments through it are given as follows:

*Journal Entries*

1. Transfer of the balance of Profit and Loss Account to Profit and Loss Appropriation Account:
   (a) If Profit and Loss Account shows a credit balance (net profit):
   Profit and Loss A/c Dr.
   To Profit and Loss Appropriation A/c
   (b) If Profit and Loss Account shows a debit balance (net loss)
   Profit and Loss Appropriation A/c Dr.
   To Profit and Loss A/c
2. Interest on Capital:
   (a) For Allowing interest on capital:
   Interest on Capital A/c Dr.
   To Partner's Capital/Current A/cs (individually)
   (b) For transferring interest on capital to Profit and Loss Appropriation Account:
   Profit and Loss Appropriation A/c Dr.
   To Interest on Capital A/c
3. Interest on Drawings:
   (a) For charging interest on drawings to partners' capital accounts:
   Partners Capital/Current A/c's (individually) Dr.
   To Interest on Drawings A/c
   (b) For transferring interest on drawings to Profit and Loss Appropriation Account:
   Interest on Drawings A/c Dr.
   To Profit and Loss Appropriation A/c

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4. Partner's Salary:
   (a) For Allowing partner's salary to partner's capital account:
   Salary to Partner A/c Dr.
   To Partner's Capital/Current A/c's (individually)
   (b) For transferring partner's salary to Profit and Loss Appropriation Account:
   Profit and Loss Appropriation A/c Dr.
   To Salary to Partner's A/c
5. Partner's Commission:
   (a) For crediting commission allowed to a partner, to partner's capital account:
   Commission to Partner A/c Dr.
   To Partner's Capital/Current A/c's (individually)
   (b) For transferring commission allowed to partners to Profit and Loss Appropriation Account.
   Profit and Loss Appropriation A/c Dr.
   To Commission to Partners Capital/Current A/c
6. Share of Profit or Loss after appropriations:
   (a) If Profit:
   Profit and Loss Appropriation A/c Dr.
   To Partner's Capital/Current A/c's (individually)
   (b) If Loss:
   Partner's Capital/Current A/c (individually)
   To Profit and Loss Appropriation A/c

*Note:* In case firm suffers a loss, no interest on capital, salary, remuneration is to be allowed to partners.

The Proforma of Profit and Loss Appropriation Account is given as follows:

**Profit and Loss Appropriation Account**

*Dr.* *Cr.*

| *Particulars* | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|
| Profit and Loss (if there is loss) | xxx | Profit and Loss (if there is profit) | xxx |
| Interest on Capital | xxx | Interest on Drawings | xxx |
| Salary to Partner | xxx | Partners' Capital/Current Accounts (distribution of Loss) | xxx |
| Commission to Partner | xxx | | |
| Partners' Capital/Current Accounts (distribution of profit) | xxx | | |
| | **xxxx** | | **xxxx** |

**Fig. 1.3:** *Proforma of Profit and Loss Appropriation Account*

### *Illustration 1*

Sameer and Yasmin are partners with capitals of Rs.15,00,000 and Rs. 10,00,000 respectively. They agreed to share profits in the ratio of 3:2. Show how the following transactions will be recorded in the capital accounts of the partners in case: (i) the capitals are fixed, and (ii) the capitals are fluctuating. The books are closed on March 31, every year.

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| *Particulars* | *Sameer (Rs.)* | *Yasmin (Rs.)* |
|---|---|---|
| Additional capital contributed on October, 2019 | 3,00,000 | 2.00,000 |
| Interest on capital | 5 % P.a | 5 % P.a |
| Drawings (during 2019-20) | 30,000 | 20,000 |
| Interest on drawings | 1,800 | 1,200 |
| Salary | 20.000 | |
| Commission | 10,000 | 7,000 |
| Share in Profit for the year 2019-20 | 60,000 | 40,000 |

## *Solution*

*Fixed Capital Method*

**Partner's Capital Accounts**

*Dr.* *Cr.*

| *Date* | *Particulars* | *L.F.* | *Sameer Amount (Rs.)* | *Yasmin Amount (Rs.)* | *Date* | *Particulars* | *L.F.* | *Sameer Amount (Rs.)* | *Yasmin Amount (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Balance c/d | | 18,00,000 | 12,00,000 | | Balance b/d | | 15,00,000 | 10,00,000 |
| | | | | | | Bank (Additional capital) | | 3,00,000 | 2,00,000 |
| | | | **18,00,000** | **12,00,000** | | | | **18,00,000** | **12,00,000** |

**Partner's Current Accounts**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.) Sameer* | *Amount (Rs.) Yasmin* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.) Sameer* | *Amount (Rs.) Yasmin* |
|---|---|---|---|---|---|---|---|---|---|
| | Drawings | | 30,000 | 20,000 | | Interest on capital | | 82,500 | 55,000 |
| | Interest on drawings | | 1,800 | 1,200 | | Partner's salary | | 20,000 | 7,000 |
| | | | 1,40,700 | 80,800 | | Commission | | 10,000 | |
| | Balance c/d | | 1,40,700 | 80,800 | | profit and loss Appropriation | | 60,000 | 40,000 |
| | | | **1,72,500** | **1,02,000** | | | | **1,72,500** | **1,02,000** |

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*Working Notes:*

| *Calculation of interest on capitals:* | *Rs.* | | *Rs.* |
|---|---|---|---|
| X 5% on Rs. 15,00,000 for 1 Year | $= 5 \times \frac{15,00,000}{100}$ | = | 75,000 |
| 5% on Rs. 3,00,000 for 6 months | $= 5 \times \frac{3,00,000}{100} \times \frac{6}{12}$ | = | 7,500 |
| | | | **82,500** |
| Y 5% on Rs. 10,00,000 for 1 year | $= 5 \times \frac{10,00,000}{100}$ | = | 50,000 |
| 5% on Rs. 2,00,000 for 6 month | $= 5 \times \frac{2,00,000}{100} \times \frac{6}{12}$ | = | 5,000 |
| | | | **55,000** |

*Fluctuating Capital Method*

*Dr.* **Partner's Capital Accounts** *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.) Sameer* | *Amount (Rs.) Yasmin* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.) Sameer* | *Amount (Rs.) Yasmin* |
|---|---|---|---|---|---|---|---|---|---|
| | Drawings | | 30,000 | 20,000 | | Balance b/d | | 15,00,000 | 10,00,000 |
| | Interest on Drawings | | 1800 | 1200 | | Bank | | 3,00,000 | 2,00,000 |
| | Balance c/d | | 19,40,700 | 12,80,800 | | Interest on capital | | 82,500 | 55,000 |
| | | | | | | Salary | | 20,000 | 7,000 |
| | | | | | | Commission | | 10,000 | - |
| | | | | | | Profit and Loss appropriation | | 60,000 | 40,000 |
| | | | **19,72,500** | **113,02,000** | | | | **19,72,500** | **13,02,000** |

**Do it Yourself**

1. Soumya and Bimal are partners in a firm Sharing profits and losses in the ratio of 3:2. The balance in their capital and current accounts as on April 01, 2019 were as under:

| | *Soumya (Rs.)* | *Bimal (Rs.)* |
|---|---|---|
| Capital Accounts | 3,00,000 | 2,00,000 |
| Current Accounts (Cr.) | 1,00,000 | 80,000 |

The partnership deed provides that Soumya is to be paid salary @ Rs, 500 per month where as Bimal is to get a commission of Rs. 40,000 for the year. Interest on capital is to be credited at 6% p.a. The drawings of Soumya and Bimal for the year were Rs. 30,000 and Rs. 10,000 respectively. The net profit of the firm before making these adjustments was Rs, 2,49,000. Interest on Soumya's drawings was Rs. 750 and Bimal's drawings, Rs. 250. Prepare Profit and Loss Appropriation Account and Partner's Capital and Current Accounts.

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2. Soniya, Charu and Smita started a partnership firm on April 1, 2019. They contributed Rs, 5,00,000, Rs. 4,00,000 and Rs. 3,00,000 respectively as their capitals and decided to share profits and losses in the ratio of 3:2:1. The partnership deed provides that Soniya is to be paid a salary of Rs. 10,000 per month and Charu a commission of Rs. 50,000. It also provides that interest on capital be allowed @6% p.a. The drawings for the year were Soniya Rs. 60,000, Charu Rs. 40,000 and Smita Rs. 20,000. Interest on drawings was charged as Rs. 2,700 on Soniya's drawings, Rs. 1,800 on Charu's drawings and Rs. 900 on Smita's drawings. The net amount of profit as per Profit and Loss Account for the year 2019-2020 is Rs. 3,56,600.

(i) Record necessary journal entries.
(ii) Prepare profit and loss appropriation account
(iii) Show capital accounts of the partners.

### *Illustration 2*

Amit, Babu and Charu set up a partnership firm on April 1, 2019. They contributed Rs. 50,000, Rs. 40,000 and Rs. 30,000, respectively as their capitals and agreed to share profits and losses in the ratio of 3 : 2 :1. Amit is to be paid a salary of Rs. 1,000 per month and Babu, a Commission of Rs. 5,000. It is also provided that interest to be allowed on capital at 6% p.a. The drawings for the year were Amit Rs. 6,000, Babu Rs. 4,000 and Charu Rs. 2,000. Interest on drawings of Rs. 270 was charged on Amit's drawings, Rs. 180 on Babu's drawings and Rs. 90, on Charu's drawings. The net profit as per Profit and Loss Account for the year ending March 31, 2020 was Rs. 35,660. Prepare the Profit and Loss Appropriation Account to show the distribution of profit among the partners.

### *Solution*

**Profit and Loss Appropriation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Amits' salary | | 12,000 | Profit and Loss A/c (Net profit) | | 35,660 |
| Babus' commission | | 5,000 | Interest on drawings: | | |
| Interest on Capitals : | | | Amit | 270 | |
| Amit | 3,000 | | Babu | 180 | |
| Babu | 2,400 | | Charu | 90 | 540 |
| Charu | 1,800 | 7,200 | | | |
| Share of profit transferred to Capital accounts : | | | | | |
| Amit | 6,000 | | | | |
| Babu | 4,000 | | | | |
| Charu | 2,000 | 12,000 | | | |
| | | **36,200** | | | **36,200** |

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### *Illustration 3*

Yadu, Madhu and Vidu are partners sharing profits and losses in the ratio of 2:2:1. There fixed capitals on April 01, 2019 were; Yadu Rs. 5,00,000, Madhu Rs. 4,00,000 and Vidhu Rs. 3,50,000. As per the partnership deed, partners are entitled to interest on capital @ 5% p.a., and Yadu has to be paid a salary of Rs. 2,000 per month while Vidu would be receiving a commission of Rs. 18,000. Net loss of the firm as per profit and loss account for the year ending March 31, 2019 amounted to Rs. 75,000 on the basis of above information prepare profit and loss appropriation account. Prepare profit and loss appropriation account for the year ending March 31, 2019.

### *Solution*

**Books of Yadu, Madhu and Vidu**
**Profit and Loss Appropriation Account**
**for the year ending March 31, 2019**

*Dr.* *Cr.*

| *Particulars* | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|
| Profit & Loss (Net Loss) | 75,000 | Partners' Current account (Distribution of Loss) | |
| | | Yadu 30,000 | |
| | | Madhu 30,000 | |
| | | Vidu 15,000 | |
| | | | 75,000 |
| | **75,000** | | **75,000** |

### *Illustration 4*

Amitabh and Babul are partners sharing profits in the ratio of 3:2, with capitals of Rs. 50,000 and Rs. 30,000 respectively. Interest on capital is agreed @ 6% p.a. Babul is to be allowed an annual salary of Rs. 2,500. Manager is to be allowed commission Rs. 5,000. Amitabh has also given a Loan on April 01 , 2019 of Rs. 50,000 to the firm without any agreement. During the year 2019-20, the profits earned is Rs. 22,250.

Prepare Profit and Loss Appropriation account showing the distribution of profit and the partners' capital accounts for the year ending March 31, 2020.

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***Solution***

**Profit and Loss Appropriation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Babul's salary | | 2,500 | Profit and Loss A/c (Net profit before Babul's salary) | 14,250 |
| Interest on capital: | | | | |
| Amitabh | | 3,000 | | |
| Babul | | 1,800 | | |
| Profit transferred to partner's capital account; | | | | |
| Amitabh | 4,170 | | | |
| Babul | 2,780 | 6,950 | | |
| | | **14,250** | | **14,250** |

**Amitabh's Capital Account**

*Dr.* *Cr.*

| *Date 2020* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2019* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Mar.31 | Balance c/d | | 57,170 | 2019 | | | |
| | | | | Apr.01 | Balance b/d | | 50,000 |
| | | | | Mar.31 | Interest on capital | | 3,000 |
| | | | | Mar.31 | Profit & Loss Appropriation a/c (share of profit) | | 4,170 |
| | | | **57,170** | | | | **57,170** |

**Babul's Capital Account**

*Dr.* *Cr.*

| *Date 2020* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Mar.31 | Balance c/d | | 37,080 | 2019 | | | |
| | | | | Apr.01 | Balance b/d | | 30,000 |
| | | | | Mar.31 | Salary | | 2,500 |
| | | | | Mar.31 | Interest on capital | | 1,800 |
| | | | | | Profit & Loss Appropriation a/c (share of profit) | | 2,780 |
| | | | **37,080** | | | | **37,080** |

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*Working Notes:*

**Profit and Loss Account**

| | Rs. | | Rs. |
|---|---|---|---|
| Managers' commission | 5,000 | Profit | 22,250 |
| Interest on Amitabh's Loan | 3,000 | | |

**Test your Understanding – II**

1. Raju and Jai commenced business in partnership on April 1, 2019. *No partnership agreement was made whether oral or written.* They contributed Rs. 4,00,000 and Rs. 1,00,000 respectively as capitals. In addtion, Raju advanced Rs. 2,00,000 as loan to the firm on October 1, 2019. Raju had met with an accident on July 1, 2017 and could not attend the business up to september 30, 2017. The profit for the year ended March 31, 2020 amounted to Rs, 50,600. Disputes have arisen between them on sharing the profits of the firm.

*Raju Claims:*

(i) He should be given interest at 10% p.a. on capital and so also on loan.
(ii) Profit should be distributed in the proportion of capitals.

*Jai Claims:*

(i) Net profit should be shared equally.
(ii) He should be allowed remuneration of Rs, 1,000 p.a. during the period of Raju's illness.
(iii) Interest on capital and loan should be given @ 6% p.a.

State the correct position on each issue as per the provisions of the Partnership Act. 1932.

2. Reena and Raman are partners with capitals of Rs. 3,00,000 and Rs. 1,00,000 respectively. The profit for the year ended March 31, 2020 was Rs. 1,80,000, before paying rent for her personal building to be used as godown for firm to Reena payable at Rs. 5000 per month. Interest on capital is to be allowed at 6% p.a. Raman was entitled to a salary of Rs. 30,000 p.a. The drawings of partners were Rs. 30,000 and 20,000. The interest on drawings to be charged to Reena was Rs. 1,000 and to Raman, Rs. 500.

   Assuming that Reena and Raman are equal partners. State their share of profit after necessary appropriations.

   *Note:* Payment of Rent to Reena is an expense for the business. Hence, it is change against profits.

### *1.5.2 Interest on Capital*

No interest is allowed on partners' capitals unless it is expressly agreed among the partners. When the Deed specifically provides for it, interest on capital is

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credited to the partners at the agreed rate with reference to the time period for which the capital remained in business during a financial year. Interest on capital is generally provided for in two situations: (i) when the partners contribute unequal amounts of capitals but share profits equally, and (ii) where the capital contribution is same but profit sharing is unequal.

*Interest on capital is calculated with due allowance for any addition or withdrawal of capital during the accounting period.* For example, Mohini, Rashmi and Navin entered into partnership, bringing in Rs. 3,00,000, Rs. 2,00,000 and Rs. 1,00,000 respectively into the business. They decided to share profits and losses equally and agreed that interest on capital will be provided to the partners @10 per cent per annum. There was no addition or withdrawal of capital by any partner during the year. The interest on capital works out to Rs. 30,000 (10% on 30,000) for Mohini, Rs. 20,000 (10% on 2,00,000) for Rashmi, and Rs. 10,000 (10% on 1,00,000) for Navin.

Take another case of Mansoor and Reshma who are partners in a firm and their capital accounts showed the balance of Rs. 2,00,000 and Rs. 1,50,000 respectively on April 1, 2019. Mansoor introduced additional capital of Rs. 1,00,000 on August 1, 2019 and Reshma brought in further capital of Rs. 1,50,000 on October 1, 2019. Interest is to be allowed @ 6% p.a. on the capitals. It shall be worked as follows:

For Mansoor $\left(\text{Rs. } 2,00,000 \times \frac{6}{100}\right) + \left(\text{Rs. } 1,00,000 \times \frac{6}{100} \times \frac{8}{12}\right)$

= Rs. 12,000 + Rs. 4,000 = Rs. 16,000

For Reshma $\left(\text{Rs. } 1,50,000 \times \frac{6}{100}\right) + \left(\text{Rs. } 1,50,000 \times \frac{6}{100} \times \frac{6}{12}\right)$

= Rs. 9,000+Rs. 4,500= Rs. 13,500

When there are both addition and withdrawal of capital by the partners during a financial year, the interest on capital is calculated as follows:

(i) On the opening balance of the capital accounts of partners, interest is calculated for the whole year;

(ii) On the additional capital brought in by any partner during the year, interest is calculated from the date of introduction of additional capital to the last day of the financial year.

(iii) In case of withdrawal of capital, interest on capital will be calculated as: On opening capital from the beginning of the year till date of capital withdrawn and then on the reduced capital for the remaining time period. Alternatively, it can be calculated with respect of amount remained in business for the relevant period.

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***Illustration 5***

Saloni and Srishti are partners in a firm. Their capital accounts as on April 01. 2019 showed a balance of Rs. 2,00,000 and Rs. 3,00,000 respectively. On July 01, 2019, Saloni introduced additional capital of Rs. 50,000 and Srishti, Rs. 60,000. On October 01 Saloni withdrew Rs. 30,000, and on January 01, 2020 Srishti withdraw, Rs. 15,000 from their capitals. Interest is allowed @ 8% p.a. Calculate interest payable on capital to both the partners during the financial year 2019–2020.

***Solution***

*Statement Showing Calculation of Interest on Capital :*

*For Saloni*

*(Rs.)*

Interest on Rs. 2,00,000 for 3 months $= \frac{\text{Rs.}2,00,000 \times 8 \times 3}{100 \times 12}$ = 4,000

*Add* : Interest on Rs. 2,50,000 for 3 months $= \frac{\text{Rs. } 2,50,000 \times 8 \times 3}{100 \times 12}$ = 5,000

*Add :* Interest on Rs. 2,20,000 for 6 months $= \text{Rs.}2,20,000 \times \frac{6}{12} \times \frac{8}{100}$ = 8,800

17,800

*For Srishti*

*(Rs.)*

Interest on Rs. 3,00,000 for 3 months $= \text{Rs.}3,00,000 \times \frac{3}{12} \times \frac{8}{100}$ = 6,000

*Add :* Interest on Rs. 3,60,000 for 6 months $= \text{Rs.}3,60,000 \times \frac{8}{100} \times \frac{6}{12}$ = 14,400

*Add :* Interest on Rs. 2,20,000 for 3 months $= \text{Rs.}3,45,000 \times \frac{8}{100} \times \frac{3}{12}$ = 300

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Sometimes opening capitals of partners may not be given. In such a situation before calculation of interest on capital the opening capitals will have to be worked out with the help of partners' closing capitals by marking necessary adjustments for the additions and withdrawal of capital, drawings, share of profit or loss, if already shown in the capital accounts the partners.

### *Illustration 6*

Josh and Krish are partners sharing profits and losses in the ratio of 3:1. Their capitals at the end of the financial year 2015-2016 were Rs. 1,50,000 and Rs. 75,000. During the year 2015-2016, Josh's drawings were Rs. 20,000 and the drawings of Krish were Rs. 5,000, which had been duly debited to partner's capital accounts. Profit before charging interest on capital for the year was Rs. 16,000. The same had also been debited in their profit sharing ratio. Krish had brought additional capital of Rs. 16,000 on October 1, 2015. Calculate interest on capital @ 12% p.a. for the year 2015-2016.

### *Solution*

**Statement Showing Calculation of Capital at the Beginning**

| *Particulars* | *Josh* Rs. | *Krish* Rs. |
|---|---|---|
| Capital at the end | 1,50,000 | 75,000 |
| *Add:* Drawings during the year | 20,000 | 5,000 |
| | **1,70,000** | **80,000** |
| *Less:* Share of profit (credited) | 12,000 | 4,000 |
| | **1,58,000** | **76,000** |
| *Less:* Additional capital | —- | 16,000 |
| Capital in the beginning | 1,58,000 | 60,000 |

Interest on capital will be as 18,960 (12% of Rs. 1,58,000) for Josh and Rs. 960 for Krish calculated as follows:

$$\left(\text{Rs. } 60,000 \times \frac{12}{100}\right) + \left(\text{Rs. } 16,000 \times \frac{12}{100} \times \frac{6}{12}\right) = \text{Rs. } 7,200 + \text{Rs. } 960$$

$$= \text{Rs. } 8,160.$$

As clarified earlier, the interest on capital is allowed only when the firm has earned profit during the accounting year. Hence, no interest will be allowed during the year the firm has incurred net loss and if in a year, the profit of the firm is less than the amount due to the partners as interest on capital, the payment of interest will be restricted to the amount of profits. In that case, the profit will be effectively distributed in the ratio of interest on capital of each partner.

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***Illustration 7***

Anupam and Abhishek are partners sharing profits and losses in the ratio of 3 : 2. Their capital accounts showed balances of Rs. 1,50,000 and Rs. 2,00,000 respectively on April 01, 2019. Show the calculation of interest on capital for the year ending December 31, 2020 in each of the following alternatives:

(a) If the partnership deed is silent as to the payment of interest on capital and the profit for the year is Rs. 50,000;
(b) If partnership deed provides for interest on capital @ 8% p.a. and the firm incurred a loss of Rs. 10,000 during the year;
(c) If partnership deed provides for interest on capital @ 8% p.a. and the firm earned a profit of Rs. 50,000 during the year;
(d) If the partnership deed provides for interest on capital @ 8% p.a. and the firm earned a profit of Rs. 14,000 during the year.

***Solution***

(a) In the absence of a specific provision in the Deed, no interest will be paid on the capital to the partners. The whole amount of profit will however be distributed among the partners in their profit sharing ratio.

(b) As the firm has incurred losses during the accounting year, no interest on capital will be allowed to any partner. The firm's loss will however be shared by the partners in their profit sharing ratio.

| | | *Rs.* |
|---|---|---|
| (c) Interest to Anupam @ 8% on Rs. 1,50,000 | = | 12,000 |
| Interest to Abhishek @ 8% on Rs. 2,00,000 | = | 16,000 |
| | | **28,000** |

As the profit is sufficient to pay interest at agreed rate, the whole amount of interest on capital shall be allowed and the remaining profit amounting to Rs. 22,000 (Rs. 50,000 – Rs. 28,000) shall be shared by the partners in their profit sharing ratio.

(d) As the profit for the year is Rs. 14,000, which is less than the amount of interest on capital due to partners, i.e. Rs. 28,000 (Rs. 12,000 for Anupam and Rs. 16,000 for Abhishek), interest will be paid to the extent of available profit i.e., Rs. 14,000. Anupam and Abhishek will be credited with Rs. 6,000 and Rs. 8,000, respectively. Effectively this amounts to sharing the firm's profit in the ratio of interest on capital, i.e., 3:4.

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**Test your Understanding – III**

1. Rani and Suman are in partnership with fixed capitals of Rs, 80,000 and Rs. 60,000, respectively. During the year 2019-20, Rani withdrew Rs. 10,000 from her capital and Suman Rs. 15,000. Profits before charging interest on capital was Rs. 50,000. Rani and Suman shared profits in the ratio of 3:2. Calculate the amounts of interest on their capitals @ 12% p.a. for the year ended March 31, 2020.
2. Priya and Kajal are partners in a firm, sharing profits and losses in the ratio of 5:3. The balance in their fixed capital accounts, on April 1, 2019 were: Priya, Rs. 6,00,000 and Kajal, Rs. 8,00,000. The profit of the firm for the year ended March 31, 2020 was Rs, 1,26,000. Calculate their shares of profits: (a) when there was no agreement in respect of interest on capital, and (b) when there is an agreement that the interest on capital will be allowed @ 12% p.a.

### *1.5.3 Interest on Drawings*

The partnership agreement may also provide for charging of interest on money withdrawn out of the firm by the partners for their personal use. As stated earlier, no interest is charged on the drawings if there is no express agreement among the partners about it. However if the partnership deed so provides for it, the interest is charged at an agreed rate, for the period for which drawings have been made. Remained outstanding from the partners during an accounting year. Charging interest on drawings discourages excessive amounts of drawings by the partners.

The calculation of interest on drawings under different situations is shown as here under.

*When Fixed Amounts was Withdrawn Every Month*

Many a time, a fixed amount of money is withdrawn by the partners, at equal time interval, say each month or each quarter. While calculating the time period, attention must be paid to whether the fixed amount was withdrawn at the beginning (first day) of the month, middle of the month or at the end (last day) of the month. If withdrawn on the first day of every month, interest on total amount will be calculated for 6½ months; if withdrawn at the end at every month, it will be calculated for 5½ months, and if withdrawn during the middle of the month, it will be calculated for 6 months.

Suppose, Aashish withdrew Rs. 10,000 per month from the firm for his personal use during the year ending March 31, 2017. The calculation of average period and the interest on drawings, in different situations would be as follows:

*(a) When the amount is withdrawn at the beginning of each month:*

$$\text{Average Period} = \frac{\text{No. of months of 1 drawings + No. of month of last drawings}}{2} =$$

$$\frac{12+1}{2} = 6\frac{1}{2} \text{ months.}$$

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$$\text{Interest on Drawings} = \frac{\text{Rs.}1,20,000 \times 8 \times 13 \times 1}{100 \times 2 \times 12} = \text{Rs. } 5,200.$$

*(b) When the amount is withdrawn at the end of each month*

$$\text{Average Period} = \frac{\text{No. of months of 1 drawings + No. of months of last drawings}}{2} =$$

$$\frac{11+0}{2} = 5\frac{1}{2} \text{ months}$$

$$\text{Interest on Drawings} = \frac{\text{Rs.}1,20,000 \times 8 \times 11 \times 1}{100 \times 2 \times 12} = \text{Rs. } 4,400.$$

*(c) When money is withdrawn in the middle of the month*

When money is withdrawn in the middle of the month, nothing is added or deduced from the total period.

$$\text{Average Period} = \frac{\text{No. of months of 1 drawings + No. of month of last drawings}}{2} = \frac{11.5+0.5}{2} =$$

6 months

$$\text{Interest on Drawings} = \frac{\text{Rs.}1,20,000 \times 8 \times 6 \times 1}{100 \times 12} = \text{Rs. } 4,800.$$

*When Fixed Amount is withdrawn Quarterly*

When fixed amount of money is withdrawn quarterly by partners, in such a situation, for the purpose of calculation of interest, the total period of time is ascertained depending on whether the money was withdrawn at the beginning or at the end of each quarter. If the amount is withdrawn at the beginning of each quarter, the interest is calculated on the total money withdrawn during the year, for a period of seven and half months i.e., $\frac{12+3}{2}$ and if withdrawn at the end of each quarter it will be calculated for a period of 4½ months, i.e., $\frac{9+0}{2}$.

Suppose Satish and Tilak are partners in a firm, sharing profits and losses equally. During financial year 2016–2017, Satish withdrew Rs. 30,000 quarterly. If interest is to be charged on drawings @ 8% per annum, the calculation of average period and interest on drawings will be as follows:

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(a) *If the amount is withdrawn at the beginning of each quarter*

**Statement Showing Calculation of Interest on Drawings**

| *Date* | *Amount (Rs.)* | *Time Period* | *Interest (Rs.)* |
|---|---|---|---|
| April 1, 2019 | 30,000 | 12 months | $30,000 \times \frac{8}{100} \times 1$ = 2,400 |
| July 1, 2019 | 30,000 | 9 months | $30,000 \times \frac{9}{12} \times \frac{8}{100}$ = 1,800 |
| Oct. 1, 2019 | 30,000 | 6 months | $30,000 \times \frac{6}{12} \times \frac{8}{100}$ = 1,200 |
| Jan. 1, 2020 | 30,000 | 3 months | $30,000 \times \frac{3}{12} \times \frac{8}{100}$ = 600 |
| **Total** | **1,20,000** | | **= Rs. 6,000** |

Alternatively, the interest can be calculated on the total amount withdrawn during the accounting year, i.e. Rs. 1,20,000 for a period of 7½ months (12+9+6+3)/4. as follows:

Rs. 1,20,000 $\times \frac{8}{100} \times \frac{15}{2} \times \frac{1}{12}$ = Rs. 6,000.

*(b) If the amount is withdrawn at the end of each quarter*

**Statement Showing Calculation of Interest on Drawings**

| *Date* | *Amount (Rs.)* | *Time Period* | *Interest (Rs.)* |
|---|---|---|---|
| June 30, 2019 | 30,000 | 9 months | $30,000 \times \frac{9 \times 8}{12 \times 100}$ = 1,800 |
| September 30, 2019 | 30,000 | 6 months | $30,000 \times \frac{6}{12} \times \frac{8}{100}$ = 1200 |
| December 31, 2019 | 30,000 | 3 months | $30,000 \times \frac{3}{12} \times \frac{8}{100}$ = 6,000 |
| March 31, 2020 | 30,000 | 0 months | |
| **Total** | **1,20,000** | | **= 3,600** |

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Alternatively, the interest can be calculated on the total amount withdrawn during the accounting year, i.e., Rs. 1,20,000 for a period of 4½ months (9 + 6 + 3 + 0)/4 months as follows:

$$= \text{Rs. } 1{,}20{,}000 \times \frac{8}{100} \times \frac{9}{2} \times \frac{1}{12} = \text{Rs. } 3{,}600$$

*When Varying Amounts are Withdrawn at Different Intervals*

When the partners withdraw different amounts of money at different time intervals, the interest is calculated using the product method. Under the product method, for each withdrawal, the money withdrawn is multiplied by the period (usually expressed in months) for which it remained withdrawn during the financial year. The period is calculated from the date of the withdrawal to the last day of the accounting year. The products so calculated are totalled on the total of the products interest at the specified rate is calculated as under:

$$\text{Total of products} \times \text{Rate} \times \frac{1}{12}$$

For example, Shahnaz withdrew the following amounts from her firm, for personal use during the year ending March 31, 2020. Calculate interest on drawings by product method, if the rate of interest to be charged is 7 per cent per annum.

| *Date* | *Amount (Rs.)* |
|---|---|
| April 1, 2019 | 16,000 |
| June 30, 2019 | 15,000 |
| October 31, 2019 | 10,000 |
| December 31, 2019 | 14,000 |
| March 1, 2020 | 11,000 |

Calculation of interest on drawings will be as follows:

**Statement Showing Calculation of Interest on Drawings**

| *Date* | *Amount (Rs.)* | *Time Period* | *Product (Rs.)* |
|---|---|---|---|
| April 1, 2019 | 16,000 | 12 months | 1,92,000 |
| June 30, 2019 | 15,000 | 9 months | 1,35,000 |
| Oct. 31, 2019 | 10,000 | 5 months | 50,000 |
| Dec. 31, 2019 | 14,000 | 3 months | 42,000 |
| Mar. 1, 2020 | 11,000 | 1 month | 11,000 |
| ***Total*** | | | **4,30,000** |

$$\text{Interest} = \text{Sum of Products} \times \text{Rate} \times \frac{1}{12}$$

$$= \text{Rs. } 4{,}30{,}000 \times \frac{7}{100} \times \frac{1}{12} = \frac{30100}{12} = \text{Rs. } 2{,}508 \text{ (approx.).}$$

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### *Illustration 8*

John Ibrahm, a partner in Modern Tours and Travels withdrew money during the year ending March 31, 2020 from his capital account, for his personal use. Calculate interest in drawings in each of the following alternative situations, if rate of interest is 9 per cent per annum.

(a) If he withdrew Rs. 3,000 per month at the beginning of the month.
(b) If an amount of Rs. 3,000 per month was withdrawn by him at the end of each month.
(c) If the amounts withdrawn were : Rs. 12,000 on June 01, 2019, Rs. 8,000; on August 31, 2019, Rs. 3,000; on September 30, 2019, Rs. 7,000, on November 30, 2019, and Rs. 6,000 on January 31, 2020.

### *Solution*

(a) As a fixed amount of Rs. 3,000 per month is withdrawn at the beginning of the month, interest on drawings will be calculated for an average period of $6\frac{1}{2}$ months.

Interest on drawings = Rs. $\frac{36,000 \times 9 \times 13 \times 1}{100 \times 2 \times 12}$ = Rs. 1,755

(b) As the fixed amount of Rs. 3,000 per month is withdrawn at the end of each month, interest on drawings will be calculated for an average period of $5\frac{1}{2}$ months.

= $\frac{\text{Rs.}36,000 \times 9 \times 11 \times 1}{100 \times 2 \times 12}$ = Rs. 1,485

**(C) Statements showing Calculation of Interest on Drawings**

| *1* *Date* | *2* *Amount withdrawn (Rs.)* | *3* *Period (in months)* | *4* *(Interest)* *(Rs.)* |
|---|---|---|---|
| Jun. 1, 2019 | 12,000 | 10 | $12,000 \times \frac{9}{100} \times \frac{10}{12} = 900$ |
| Aug. 31, 2019 | 8,000 | 7 | $8,000 \times \frac{9}{100} \times \frac{7}{12} = 420$ |
| Sept. 30, 2019 | 3,000 | 6 | $3,000 \times \frac{9}{100} \times \frac{6}{12} = 135$ |
| Nov. 30, 2019 | 7,000 | 4 | $7,000 \times \frac{9}{100} \times \frac{4}{12} = 210$ |
| Jan. 31, 2020 | 6,000 | 2 | $6,000 \times \frac{9}{100} \times \frac{2}{12} = 90$ |
| **Total Interest** | | | **1,755** |

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### *Illustration 9*

Manu, Harry and Ali are partners in a firm sharing profits and losses equally. Harry and Ali withdrew the following amounts from the firm, for their personal use during 2019-2020.

| *Date* | *Harry (Rs.)* | *Ali (Rs.)* |
|---|---|---|
| 2019 | | |
| April, 01 | 5,000 | 7,000 |
| July, 01 | 8,000 | 4,000 |
| December, 01 | 5,000 | 5,000 |
| March, 01, 2020 | 4,000 | 9,000 |

Calculate interest on drawings if the rate of interest to be charged is 10 per cent, and the books are closed on December 31 every year.

**Statement Showing Calculation of Interest on Drawings**

| *Harry* | | | *Ali* | | |
|---|---|---|---|---|---|
| *Amount (Rs.)* | *Period (in months)* | *Product (Rs.)* | *Amount (Rs.)* | *Period (in months)* | *Product (Rs.)* |
| 5000 | 12 | 60,000 | 7,000 | 12 | 84,000 |
| 8000 | 9 | 72,000 | 4,000 | 9 | 36,000 |
| 5000 | 4 | 20,000 | 5,000 | 4 | 20,000 |
| 4000 | 1 | 4,000 | 10,000 | 1 | 10,000 |
| | | **1,56,000** | | | **1,50,000** |

Amount of Interest

Mannu = Rs. $\frac{1,56,000 \times 10 \times 1}{100 \times 12}$ = Rs. 1,300

Ali = Rs. $\frac{1,50,000 \times 10 \times 1}{100 \times 12}$ = Rs. 1,250

**Do it Yourself**

1. Govind is a partner in a firm. He withdrew the following amounts during the year 2019-20:

| | *(Rs.)* |
|---|---|
| April 30, 2019 | 6,000 |
| June 30, 2019 | 4,000 |
| Sept. 30, 2019 | 8,000 |
| Dec. 31, 2019 | 3,000 |
| Jan. 31, 2020 | 5,000 |

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The interest on drawings is to be charged @ 6% p.a. The books are closed on March 31, every year. Calculate interest on drawing :

2. Ram and Syam are partners sharing profits/losses equally. Ram withdrew Rs. 1,000 p.m. regularly on the first day of every month during the year 2015-16 for personal expenses. If interest on drawings is charged @ 5% p.a. Calculate interest on the drawings of Ram.
3. Verma and Kaul are partners in a firm. The partnership agreement provides that interest on drawings should be charged @ 6% p.a. Verma withdraws Rs. 2,000 per month starting from April 01, 2019 to March 31, 2020. Kaul withdrew Rs, 3,000 per quarter, starting from April 01, 2019. Calculate interest on partner's drawings.

*When Dates of Withdrawal are not specified*

When the total amount withdrawn is given but the dates of withdrawals are not specified, it is assumed that the amount was withdrawn evenly throughout the year. *For example;* Shakila withdrew Rs. 60,000 from partnership firm during the year ending March 31, 2020 and the interest on drawings is to be charged at the rate of 8 per cent per annum. For calculation of interest, the period would be taken as six months, which is the average period assuming, that amount is withdrawn evenly in the middle of the month, throughout the year. The amount of interest on drawings works out to be Rs. 2,400 as follows:

$$\left(\text{Rs.}60{,}000 \times \frac{8}{100} \times \frac{6}{12}\right) = \text{Rs. } 2{,}400$$

## 1.6 Guarantee of Profit to a Partner

Sometimes a partner is admitted into the firm with a guarantee of certain minimum amount by way of his share of profits of the firm. Such assurance may be given by all the old partners in a certain ratio or by any of the old partners, individually to the new partner. The minimum guaranteed amount shall be paid to such new partner when his share of profit as per the profit sharing ratio is less than the guarnteed amount. For example, Madhulika and Rakshita, who are partners in a firm decide to admit Kanishka into their firm, giving her the guarantee of a minimum of Rs.25,000 as her share in firm's profits. The firm earned a profit of Rs.1,20,000 during the year and the agreed profit sharing ratio between the partners is decided as 2:3:1. As per this ratio, Madhulika's share in profit comes to Rs.40,000 (2/6 of Rs. 1,20,000); Rakshita, Rs. 60,000 (3/6 of Rs. 1,20,000) and Kanishka Rs. 20,000 (1/6 of Rs. 1,20,000). The share of Kanishka works out to be Rs.5,000 short of the guaranteed amount. This shall be borne by the guaranteeing partners Madhulika and Rakshita in

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their profit sharing ratio, which in this case is 2:3, Madhulika's share in the deficiency comes to Rs.2,000 (2/5 of Rs. 5,000), and that of Rakshita Rs.3,000. The total profit of the firm will be distributed among the partners as follows Madhulika will get Rs.38,000 (her share 40,000 minus share in deficiency Rs.2,000); Rakshita Rs.57,000 (60,000–3,000) and Kanishka Rs. 25,000 (Rs. 20,000 + Rs. 2,000 + Rs. 3,000).

If only one partner gives the guarantee, say in the above case, only Rakshita gives the guarantee, the whole amount of deficiency (Rs.5,000) will be borne by her only. In that case profit distribution will be Madhulika Rs.40,000, Rakshita Rs. 55,000 (60,000–5,000) and Kanishka Rs. 25,000 (Rs. 20,000 + Rs. 5,000).

### *Illustration 10*

Mohit and Rohan share profits and losses in the ratio of 2:1. They admit Rahul as partner with 1/4 share in profits with a guarantee that his share of profit shall be at least Rs. 50,000. The net profit of the firm for the year ending March 31, 2015 was Rs. 1,60,000. Prepare Profit and Loss Appropriation Account.

### *Solution*

**Books of Mohit, Rohit and Rahul**
**Profit and Loss Appropriation Account**
**for the year ending .....**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Mohit's capital (share of profit) | 80,000 | | Profit and Loss (Net profit) | 1,60,000 |
| *Less:* Share in deficiency | 6,667 | 73,333 | | |
| Rohan's capital (share of profit) | 40,000 | | | |
| *Less:* Share in deficiency | 3,333 | 36,667 | | |
| Rahul's capital (share of profit) | 40,000 | | | |
| *Add:* Deficiency received from: | | | | |
| Mohit | 6,667 | | | |
| Rohan | 3,333 | 50,000 | | |
| | | **1,60,000** | | **1,60,000** |

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*Working Notes:*

The new profit sharing ratio after admission of Rahul comes to 2:1:1. As per this ratio the share of partners in the profit comes to:

Mohit = Rs. 1,60,000 × $\frac{2}{4}$ = Rs. 80,000

Rohan = Rs. 1,60,000 × $\frac{1}{4}$ = Rs. 40,000

Rahul = Rs. 1,60,000 × $\frac{1}{4}$ = Rs. 40,000

But, since Rahul has been given a guarantee of minimum of Rs. 50,000 as his share of profit. The deficiency of Rs. 10,000 (Rs. 50,000 – Rs. 40,000) shall be borne by Mohit and Rohan in the ratio in which they share profits and losses between themselves, viz. 2:1 as follows:

Mohit's share in deficiency comes to 2/3 × Rs. 10,000 = Rs. 6,667
Rohan's share in deficiency comes to 1/3 × Rs. 10,000 = Rs. 3,333

Thus Mohit will get Rs. 80,000 – Rs. 6,667 = Rs. 73,333, Rohan will get Rs. 40,000–Rs. 3,333 = Rs. 36,667 and Rahul will get Rs. 40,000 + Rs. 6,667 + Rs. 3,333 = Rs. 50,000 in the profit of the firm.

*Calculation of new profit sharing ratio*

The new partner Rahul's share is $\frac{1}{4}$. The remaining profit is $1 - \frac{1}{4} = \frac{3}{4}$, to be shared between Mohit and Rohan in the ratio of 2:1.

Mohit's new share = $\frac{3}{4} \times \frac{2}{3} = \frac{2}{4}$

Rohan's new share = $\frac{3}{4} \times \frac{1}{3} = \frac{1}{4}$

Thus, New profit sharing ratio comes to be $\frac{2}{4} : \frac{1}{4} : \frac{1}{4}$ or 2 : 1 :1.

### *Illustration 11*

Arun, Varun and Tarun were partners of a law firm sharing profits in the ratio of 5:3:2. Their partnership deed provided the following:

(i) Interest on partners' capital @ 5% p.a.
(ii) Arun guaranteed that he would earn a minimum annual fee of Rs. 6,00,000 for the firm.
(iii) Tarun was guaranteed a profit of Rs. 2,50,000 (excluding interest on capital) and any deficiency on account of this was to be borne by Arun and Varun in the ratio of 2:3.

During the year ending March 31, 2019, Arun earned a fee of Rs. 3,20,000 and net profits earned by the firm were Rs. 8,60,000. Partner's capital on April 01, 2018 were Arun - Rs. 30,00,000; Varun - Rs. 3,00,000 and Tarun- Rs. 2,00,000.

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Prepare Profit and Loss Appropriation account and show your workings clearly.

***Solution***

**Books of Arun, Varun and Tarun**
**Profit and Loss Appropriation Account**
**for the year ending March 31, 2019**

| *Particulars* | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|
| Interest on Capital | | Profit & Loss | 8,60,000 |
| Arun - 15,000 | | (Net Profit) | |
| Varun - 15,000 | | Arun's Capital | 2,80,000 |
| Tarun - 10,000 | 40,000 | | |
| Partners' Capital Accounts :- | | | |
| Arun 5,50,000 | | | |
| (-) Share in deficiency 12,000 | 5,38,000 | | |
| Varun 3,30,000 | | | |
| (-) Share in deficiency 18,000 | 3,12,000 | | |
| Tarun 2,20,000 | | | |
| + deficiency received from | | | |
| Arun 12,000 | | | |
| Varun 18,000 | | | |
| | 2,50,000 | | |
| | **1,40,000** | | **11,40,000** |

*Working Notes :-*

Arun's deficiency of annual fee = Rs. 6,00,000 - Rs. 3,20,000
= Rs. 2,80,000

Tarun's deficiency in profits = Rs. 2,50,000 - Rs. 2,20,000

Rs. 30,000 to be borne by Arun & Varun in the ratio of 2:3 i.e. Rs. 12,000 and Rs. 18,000 respectively.

***Illustration 12***

John and Mathew share profits and losses in the ratio of 3:2. They admit Mohanty into their firm to 1/6 share in profits. John personally guaranteed that Mohanty's share of profit, after charging interest on capital @ 10 per cent per annum would

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not be less than Rs. 30,000 in any year. The capital provided was as follows: John Rs. 2,50,000, Mathew Rs. 2,00,000 and Mohanty Rs. 1,50,000. The profit for the year ending March 31,2015 amounted to Rs. 1,50,000 before providing interest on capital. Show the Profit & Loss Appropriation Account if new profit sharing ratio is 3:2:1.

***Solution***

**Books of John and Mathew**
**Profit and Loss Appropriation Account**
**for the year ending.....**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Interest on capital | | | Net profit | 1,50,000 |
| John | 25,000 | | | |
| Mathew | 20,000 | | | |
| Mohanty | 15,000 | 60,000 | | |
| Capital accounts shared info : | | | | |
| John | 45,000 | | | |
| *Less:* Share of deficiency | 15,000 | 30,000 | | |
| Mathew | | 30,000 | | |
| Mohanty | 15,000 | | | |
| *Add:* Deficiency received from John | 15,000 | 30,000 | | |
| | | **1,50,000** | | **1,50,000** |

*Working Notes:*

Profit after interest on capital is Rs. 90,000, which is to be distributed in the ratio of 3:2:1 as follows: John gets Rs. 45,000 (3/6 × Rs. 90,000), Mathew Rs. 30,000, Mohanty Rs. 15,000. Deficiency of Mohanty from the guaranteed profit of Rs. 15,000 will be borne by John. John will therefore get Rs. 45,000 – Rs. 15,000 = Rs. 30,000, Mathew Rs. 30,000 and Mohanty Rs. 30,000.

***Illustration 13***

Mahesh and Dinesh share profits and losses in the ratio of 2:1. From January 01, 2014 they admit Rakesh into their firm who is to be given a share of 1/10 of the profits with a guaranteed minimum of Rs. 25,000. Mahesh and Dinesh continue to share profits as before but agree to bear any deficiency on account of guarantee to Rakesh in the ratio of 3:2 respectively. The profits of the firm for the year ending December 31, 2015 amounted to Rs. 1,20,000. Prepare Profit and Loss Appropriation Account.

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**Books of Mahesh and Dinesh**
**Profit and Loss Appropriation Account**
**for the year ending .....**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capital Accounts: | | | Net profit | 1,20,000 |
| (for share of profit) | | | | |
| Mahesh | 72,000 | | | |
| 6/10 × 1,20,000 | | | | |
| *Less:* Deficiency share | 7,800 | 64,200 | | |
| Dinesh | 36,000 | | | |
| 3/10 × 1,20,000 | | | | |
| *Less:* Deficiency share | 5,200 | 30,800 | | |
| Rakesh | 12,000 | | | |
| *Add:* Share of | | | | |
| Deficiency from | | | | |
| Mahesh | 7,800 | | | |
| Dinesh | 5,200 | 25,000 | | |
| | | **1,20,000** | | **1,20,000** |

*Working Notes:*

New profit sharing Ratio will be calculated as follows:

Rakesh to share $\frac{1}{10}$ of the profits. The remaining profit $\frac{9}{10}$ will be shared by Mahesh and Dinesh in the ratio of 2:1.

Mahesh's share in profit will be $\frac{2}{3}\times\frac{9}{10}=\frac{3}{10}$

Dinesh's share will be $\frac{1}{3}\times\frac{9}{10}=\frac{3}{10}$

The New ratio becomes $\frac{3}{5}:\frac{3}{10}:\frac{1}{10}$ or 6 : 3 : 1.

Mahesh's share in profit = 1,20,000 × $\frac{6}{10}$ = Rs. 72,000,
Dinesh's share in profit = Rs. 36,000,
Rakesh's share in profit = Rs. 12,000.

Deficiency of Rakesh (Rs. 13,000) will be shared by Mahesh and Dinesh in the ratio of 3:2.

Mahesh will bear 3/5 of 13,000, i.e. Rs. 7,800 and Rakesh, 2/5 of Rs. 13,000, i.e. Rs. 5,200.

Thus, the profits of the firm will be shared as follows.
Mahesh will get Rs. 72,000 – Rs. 7,800 = Rs. 64,200.
Dinesh will get Rs. 36,000 – Rs. 5,200 = Rs. 30,800
Rakesh will get Rs. 12,000 + Rs. 7,800 + Rs. 5,200 = Rs. 25,000.

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**Do It Yourself**

Kavita and Lalit are partners sharing profits in the ratio of 2:1. They decide to admit Mohan with share in profits with a guaranteed amount of Rs. 25,000. Both Kavita and Lalita undertake to meet the liability arising out of Guaranteed amount to Mohan in their respective profit sharing ratio. The profit sharing ratio between Kavita and Lalit does not change. The firm earned profits of Rs. 76,000 for the year 2006–07.Show the distribution of profit amongst the partners.

## 1.7 Past Adjustments

Sometimes a few omissions or errors in the recording of transactions or the preparation of summary statements are found after the final accounts have been prepared and the profits distributed among the partners. The omission may be in respect of interest on capitals, interest on drawings, interest on partners' loan, partner's salary, partner's commission or outstanding expenses. There may also be some changes in the provisions of partnership deed or system of accounting having impact with retrospective effect. All these acts of omission and commission need adjustments for correction of their impact. Instead of altering old accounts, necessary adjustments can be made either; (a) through 'Profit and Loss Adjustment Account', or (b) directly in the capital accounts of the concerned partners. This is explained with the help of following example.

Rameez and Zaheer are equal partners. Their capitals as on April 01, 2015 were Rs. 50,000 and Rs. 1,00,000 respectively. After the accounts for the financial year ending March 31, 2016 have been prepared, it is discovered that interest at the rate of 6 per cent per annum, as provided in the partnership deed has not been credited to the partners' capital accounts before distribution of profit. In this case, the interest on capital not credited to the partners' capital accounts works out to be Rs. 3000 (6/100 × Rs. 50,000) for Rameez and Rs. 6,000 (6/100 × Rs. 1,00,000) for Zaheer. Had the interest on capital been duly provided, the firm's profit would have reduced by Rs. 9,000. By this omission, the whole amount of profit as per Profit and Loss Account (without adjustment of Rs. 9,000) has been distributed among the partners in their profit sharing ratio, and the amounts of interest on capital have not been credited to their capital accounts. This error can be rectified in any of the following ways;

*(a) Through Profit and Loss Adjustment Account*

| | | | | |
|---|---|---|---|---|
| (i) | Profit and Loss Adjustment A/c | Dr. | 9,000 | |
| | To Rameez's capital A/c | | | 3,000 |
| | To Zaheer's capital A/c | | | 6,000 |
| | (Interest on capital) | | | |

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| | | | | |
|---|---|---|---|---|
| (ii) | Rameez's capital A/c | Dr. | 4,500 | |
| | Zaheer's capital A/c | Dr. | 4,500 | |
| | To Profit and Loss Adjustment A/c | | | 9,000 |
| | (Loss on adjustment) | | | |

*(b) Directly in Partners' Capital Accounts*

For direct adjustment in partners' capital accounts first a statement to ascertain the net effect of omission on partners' capital accounts will be worked out as follows and then the adjustment entries can be recorded.

**Statement Showing Net Effect of Omitting Interest on Capital**

| *Details* | *Rameez (Rs.)* | *Zaheer (Rs.)* |
|---|---|---|
| (i) Amount which should have been credited as interest on capital | 3,000 (Cr.) | 6,000 (Cr.) |
| (ii) Amount actually credited by way of share of profit (Rs. 9,000 divided equally)— | 4,500 (Dr.) | 4,500 (Dr.) |
| (iii) Difference between (i) and (ii) (Net effect) | **Dr. 1,500 (Excess)** | **Cr. 1,500 (Short)** |

The statement shows that Rameez has got excess credit of Rs. 1,500 while Zaheer's account has been credited less by Rs. 1,500. In order to rectify the error Rameez's capital account should be debited and that of Zaheer, credited with Rs. 1,500 by passing the following journal entry;
journal entry.

| | | | |
|---|---|---|---|
| Rameez's Capital A/c | Dr. | 1,500 | |
| To Zaheer's Capital A/c | | | 1,500 |
| (Adjustment for omission of interest on capital) | | | |

### *Illustration 14*

Nusrat, Sonu and Himesh are partners sharing profits and losses in the ratio of 5 : 3 : 2. The partnership deed provides for charging interest on drawing's @ 10% p.a. The drawings of Nusrat, Sonu and Himesh during the year ending March 31, 2015 amounted to Rs. 20,000, Rs. 15,000 and Rs. 10,000 respectively. After the final accounts have been prepared, it was discovered that interest on drawings has not been taken into consideration. Give necessary adjusting journal entry.

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**Statement showing Net Effect of Omitting Interest on Drawings**

| *Particulars* | *Nusrat (Rs.)* | *Sonu (Rs.)* | *Himesh (Rs.)* | *Total* |
|---|---|---|---|---|
| Amount which should have been debited by way of interest on drawings | 2,000 (Dr.) | 1,500 (Dr.) | 1,000 (Dr.) | 4,500 |
| Amount that should have been credited by way of share of profit | 2,250 (Cr.) | 1,350 (Cr.) | 900 (Cr.) | 4,500 |
| **Required Adjustment** | **Cr. 250 (Short)** | **Cr. 150 (Excess)** | **Cr.100 (Excess)** | |

Journal Entry for adjustment of interest on drawings would be:

| | | | |
|---|---|---|---|
| Sonu's Capital A/c | Dr. | 150 | |
| Himesh's Capital A/c | Dr. | 100 | |
| To Nusrat's Capital A/c | | | 250 |
| (Adjustment for omission of interest on drawings) | | | |

**Do it Yourself**

1. Gupta and Sarin are partners in a firm sharing profits in the ratio of 3:2. Their fixed capitals are: Gupta 2,00,000, and Sarin 3,00,000. After the accounts for the year are prepared it is discovered that interest on capital @10% p.a. as provided in the partnership agreement, has not been credited in the capital accounts of partners before distribution of profits. Record adjustment entry to rectify the error.
2. Krishna, Sandeep and Karim are partners sharing profits in the ratio of 3:2:1. Their fixed capitals are: Krishan Rs. 1,20,000, Sandeep 90,000 and Karim 60,000. For the year 2014-15, interest was credited to them @ 6% p.a. instead of 5% p.a. Record adjustment entries through P&L adjustments account.
3. Leela, Meera and Neha are partners and have omitted interest on capital @9% p.a. for three years ended March 31, 2013. Their fixed capitals on which interest was to be allowed throughout were: Leela Rs. 80,000, Meera Rs. 60,000 and Neha Rs. 1,00,000. Their profit sharing ratio during the last three years were:

| *Year* | *Leela* | *Meera* | *Neha* |
|---|---|---|---|
| 2015-16 | 2 | 2 | 2 |
| 2014-15 | 4 | 5 | 1 |
| 2013-14 | 1 | 2 | 2 |

Record adjustment entry.

## *Terms Introduced in the Chapter*

- Partnership
- Partnership Firm
- Partnership Deed
- Interest on Capital
- Interest on Drawings
- Average Period

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- Fixed Capital Account
- Fluctuating Capital Account
- Profit and Loss Adjustment Account
- Profit and Loss Appropriation Account
- Partner's Current Account

## *Summary*

1. *Definition of partnership and its essential features:* Partnership is defined as "Relation between persons who have agreed to share the profits of a business carried on by all or any one of them acting for all". The essential features of partnership are : (i) To form a partnership, there must be at least two persons; (ii) It is created by an agreement; (iii) The agreement should be for carrying on some legal business; (iv) sharing of profits and losses; and (v) relationship of mutual agency among the partners.

2. *Meaning and contents of partnership deed:* A document which contains the terms of partnership as agreed among the partners is called 'Partnership Deed'. It usually contains information about all aspects affecting relationship between partners, including objective of business, contribution of capital by each partner, ratio in which profit and losses will be shared by the partners, entitlement of partners to interest on capital, interest on loan and the rules to be followed in case of admission, retirement, death, dissolution, etc.

3. *Provisions of Partnership Act 1932 applicable to accounting:* If partnership deed is silent in respect of certain aspects, the relevant provisions of the Indian Partnership Act, 1932 become applicable. According to the Partnership Act, the partners share profits equally, no partner is entitled to remuneration, no interest on capital is allowed and no interest on drawings is charged. However, if any partner has given some loan to the firm, he is entitled to interest on such amount @ 6% per annum.

4. *Preparation of capital accounts under fixed and fluctuating capital methods:* All transactions relating to partners are recorded in their respective capital accounts in the books of the firm. There can be two methods of maintaining Capital Accounts. These are; (i) fluctuating capital method, (ii) fixed capital method. Under fluctuating capital method, all the transactions relating to a partner are directly recorded in the capital account. Under fixed capital method, however the amount of capital remains fixed, the transactions like interest on capital, drawings, interest on drawings, salary, commission, share of profit or loss are recorded in a separate account called 'Partner's Current Account'.

5. *Distribution of profit and loss:* The distribution of profits among the partners is shown through a Profit and Loss Appropriation Account, which is merely an extension of the Profit and Loss Account. It is usually debited with interest on capital and salary/commission allowed to the partners, and credited with net profit as per Profit and Loss Account and the interest on drawings. The balance being profit or loss is distributed among the partners in the profit sharing ratio and transferred to their respective capital accounts.

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6. *Treatment of guarantee of minimum profit to a partner:* Sometimes, a partner may be guaranteed a minimum amount by way of his share in profits. If, in any year, the share of profits as calculated according to his profit sharing ratio is less than the guaranteed amount, the deficiency is made good by the guaranteeing partners' in the agreed ratio which usually is the profit sharing ratio. If, however, such guarantee has been given by any of them, he or they alone shall bear the amount of deficiency.

7. *Treatment of past adjustments:* If, after the final accounts have been prepared, some omission or commissions are noticed say in respect of the interest on capital, interest on drawings, partner's salary, commission, etc. necessary adjustments can be made in the partner's capital accounts through the Profit and Loss Adjustment Account, to rectify the same.

8. *Preparation of final accounts of a partnership firm:* There is not much difference in the final accounts of a sole proprietary concern and that of a partnership firm except that in case of a partnership firm an additional account called Profit and Loss Appropriation Account is prepared to show distribution of profit and loss among the partners.

## Questions for Practice

### Short Answer Questions

1. Define Partnership Deed.
2. Why is it considered desirable to make the partnership agreement in writing?
3. List the items which may be debited or credited in capital accounts of the partners when:
   (i) Capitals are fixed.
   (ii) Capital are fluctuating.
4. Why is Profit and Loss Appropriation Account prepared?
5. Give two circumstances under which the fixed capitals of partners may change.
6. If a fixed amount is withdrawn on the first day of every quarter, for what period the interest on total amount withdrawn will be calculated?
7. In the absence of Partnership deed, specify the rules relating to the following :
   (i) Sharing of profits and losses.
   (ii) Interest on partner's capital.
   (iii) Interest on Partner's drawings.
   (iv) Interest on Partner's loan
   (v) Salary to a partner.

### Long Answer Questions

1. What is meant by partnership? Explain its chief characteristics? Explain.

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2. Discuss the main provisions of the Indian Partnership Act 1932 that are relevant to partnership accounts if there is no partnership deed.
3. Explain why it is considered better to make a partnership agreement in writing.
4. Illustrate how interest on drawings will be calculated under various situations.
5. How will you deal with a change in profit sharing ratio among existing partners? Take imaginary figures to illustrate your answer.

## *Numerical Questions*

1. Triphati and Chauhan are partners in a firm sharing profits and losses in the ratio of 3:2. Their capitals were Rs.60,000 and Rs.40,000 as on April 01, 2019. During the year they earned a profit of Rs. 30,000. According to the partnership deed both the partners are entitled to Rs. 1,000 per month as salary and 5% p.a. interest on their capital. They are also to be charged an interest of 5% p.a. on their drawings, irrespective of the period, which is Rs. 12,000 for Tripathi, Rs. 8,000 for Chauhan. Prepare Partner's capital/current accounts when, capitals are fixed.

   (**Ans :** Tripathi's Current account Balance Rs. 3,600,Chauhan's Current account Balance Rs.6,400, Tripathi's capital Rs. 60,000, Chauhan capital Rs. 40,000).

2. Anubha and Kajal are partners of a firm sharing profits and losses in the ratio of 2:1. Their capital, were Rs.90,000 and Rs.60,000. The profit during the year were Rs. 45,000. According to partnership deed, both partners are allowed salary, Rs. 700 per month to Anubha and Rs. 500 per month to Kajal. Interest allowed on capital @ 5%p.a. The drawings during the year were Rs. 8,500 for Anubha and Rs. 6,500 for Kajal. Interest is to be charged @ 5% p.a. on drawings. Prepare partners capital accounts, assuming that the capital account are fluctuating.

   (**Ans :** Anubha's Capital Account Balance Rs.1,09,860, Kajal's Capital Account Balance Rs.70,140)

3. Harshad and Dhiman are in partnership since April 01, 2019. No Partnership agreement was made. They contributed Rs. 4,00,000 and 1,00,000 respectively as capital. In addition, Harshad advanced an amount of Rs. 1,00,000 to the firm, on October 01, 2019. Due to long illness, Harshad could not participate in business activities from August 1, to September 30, 2016. The profits for the year ended March 31, 2020 amounted to Rs. 1,80,000.
   Dispute has arisen between Harshad and Dhiman.

   *Harshad Claims:*

   (i) he should be given interest @ 10% per annum on capital and loan;
   (ii) Profit should be distributed in proportion of capital;

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*Dhiman Claims:*

(i) Profits should be distributed equally;

(ii) He should be allowed Rs. 2,000 p.m. as remuneration for the period he managed the business, in the absence of Harshad;

(iii) Interest on Capital and loan should be allowed @ 6% p.a.

You are required to settle the dispute between Harshad and Dhiman. Also prepare Profit and Loss Appropriation Account.

(**Ans :** Harshad's share in profit Rs. 88,500, Dhiman's share in profit Rs. 88,500)

4. Aakriti and Bindu entered into partnership for making garment on April 01, 2019 without any Partnership agreement. They introduced Capitals of Rs. 5,00,000 and Rs. 3,00,000 respectively on October 01, 2019. Aakriti Advanced. Rs, 20,000 by way of loan to the firm without any agreement as to interest. Profit and Loss account for the year ended March 31 2020 showed profit of Rs, 43,000. Partners could not agree upon the question of interest and the basis of division of profit. You are required to divide the profits between them by preparing Profit and Loss Appropriation Account. Also give reasons in Support of your answer.

(**Ans :** Profit is shared equally between Aakriti and Bindu Rs. 21,200)

5. Rakhi and Shikha are partners in a firm, with capitals of Rs. 2,00,000 and Rs, 3,00,000 respectively. The profit of the firm, for the year ended 2016-17 is Rs. 23,200. As per the Partnership agreement, they share the profit in their capital ratio, after allowing a salary of Rs. 5,000 per month to Shikha and interest on Partner's capital at the rate of 10% p.a. During the year Rakhi withdrew Rs. 7,000 and Shikha Rs. 10,000 for their personal use. As per partnership deed, salary and interest on capital appropriation treated as charge on profit. You are required to prepare Profit and Loss Appropriation Account and Partner's Capital Accounts.

(**Ans :** Loss transferred to Rakhi's Capital Rs.34,720 and Shikha's Capital Rs.52,080)

6. Lokesh and Azad are partners sharing profits in the ratio 3:2, with capitals of Rs. 50,000 and 30,000, respectively. Interest on capital is agreed to be paid @ 6% p.a. Azad is allowed a salary of Rs. 2,500 p.a. During 2016, the profits prior to the calculation of interest on capital but after charging Azad's salary amounted to Rs. 12,500. A provision of 5% of profits is to be made in respect of manager's commission. Prepare partner's capital accounts and profit and loss Appropriation Account.

(**Ans :** Profit transferred to Lokesh's Capital Rs. 4,170 and Azad's Capital Rs.2,780)

7. The partnership agreement between Maneesh and Girish provides that:

(i) Profits will be shared equally;

(ii) Maneesh will be allowed a salary of Rs. 400 p.m;

(iii) Girish who manages the sales department will be allowed a commission equal to 10% of the net profits, after allowing Maneesh's salary;

(iv) 7% p.a. interest will be allowed on partner's fixed capital;

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(v) 5% p.a. interest will be charged on partner's annual drawings;
(vi) The fixed capitals of Maneesh and Girish are Rs. 1,00,000 and Rs. 80,000, respectively. Their annual drawings were Rs. 16,000 and 14,000, respectively. The net profit for the year ending March 31, 2019 amounted to Rs. 40,000;
Prepare firm's Profit and Loss Appropriation Account.

(**Ans :** Profit transferred to the Capital accounts of Maneesh and Girish each, Rs.10,290)

8. Ram, Raj and George are partners sharing profits in the ratio 5 : 3 : 2. According to the partnership agreement George is to get a minimum amount of Rs. 10,000 as his share of profits every year. The net profit for the year 2013 amounted to Rs, 40,000. Prepare the Profit and Loss Appropriation Account.

(**Ans :** Profit transferred to Ram's Capital Rs.18,750, Raj's Capital Rs.11,250 and George's Capital Rs.10,000)

9. Amann, Babita and Suresh are partners in a firm. Their profit sharing ratio is 2:2:1. Suresh is guaranteed an amount of Rs. 10,000 as share of profit, every year. Any deficiency on that account shall be met by Babita. The profits for two years ending March 31, 2019 and March 31, 2020 were Rs. 40,000 and Rs. 60,000, respectively. Prepare the Profit and Loss Appropriation Account for the two years.

(**Ans :** For the year 2019, Profits transferred to Amann's Capital, Rs.16,000; Babita's Capital Rs.14,000; Suresh's capital Rs.10,000 and for the year 2020, Profit transferred to Amann's Capital Rs.24,000, Babita's Capital Rs.24,000, Suresh's capital, Rs.12,000)

10. Simmi and Sonu are partners in a firm, sharing profits and losses in the ratio of 3:1. The profit and loss account of the firm for the year ending March 31, 2020 shows a net profit of Rs. 1,50,050. Prepare the Profit and Loss Appropriation Account and partners current account by taking into consideration the following information:
(i) Partners capital on April 1, 2019;
Simmi, Rs. 30,000; Sonu, Rs. 60,000;
(ii) Current accounts balances on April 1, 2019;
Simmi, Rs. 30,000 (cr.); Sonu, Rs. 15,000 (cr.);
(iii) Partners drawings during the year amounted to
Simmi, Rs. 20,000; Sonu, Rs. 15,000;
(iv) Interest on capital was allowed @ 5% p.a.;
(v) Interest on drawing was to be charged @ 6% p.a. at an average of six months;
(vi) Partners' salaries : Simmi Rs. 12,000 and Sonu Rs. 9,000.

(**Ans :** Profit transferred to Simmi's Capital, Rs. 94,162 and Sonu's Capital, Rs. 31,388)

11. Arvind and Anand are partners sharing profits and losses in the ratio 8:3:1 Balances in their capital accounts on April 01, 2019 were, Arvind- Rs. 4,40,000 and Anand Rs. 2,60,000. As per their agreement, partners were entitled to interest on capital @ 5% p.a., and interest on drawings was to be charged

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@ 6% p.a. Arvind was allowed an annual salary of Rs. 35,000/- for the additional responsibilities taken up by him. Partners drawings for the year were, I Arvind Rs. 40,000 and Anand Rs. 28,000. Profit and loss account of the firm for the year ending March 31, 2020 showed a Net Loss of Rs. 32,400. Prepare Profit and Loss Appropriation Account.

(**Ans :** (i) Interest on drawings : Arvind - Rs. 1200, Anand- Rs. 840 (ii) Share of Loss : Arvind - Rs. 22,770, Anand- Rs. 7,590)

12. Ramesh and Suresh were partners in a firm sharing profits in the ratio of their capitals contributed on commencement of business which were Rs. 80,000 and Rs. 60,000 respectively. The firm started business on April 1, 2019. According to the partnership agreement, interest on capital and drawings are 12% and 10% p.a., respectively. Ramesh and Suresh are to get a monthly salary of Rs. 2,000 and Rs. 3,000, respectively.

    The profits for year ended March 31, 2017 before making above appropriations was Rs. 1,00,300. The drawings of Ramesh and Suresh were Rs. 40,000 and Rs. 50,000, respectively. Interest on drawings amounted to Rs. 2,000 for Ramesh and Rs. 2,500 for Suresh. Prepare Profit and Loss Appropriation Account and partners' capital accounts, assuming that their capitals are fluctuating.

    (**Ans :** Profit transferred to Ramesh's Capital Rs.16,000 and Suresh's Capital, Rs.12,000)

13. Sukesh and Vanita were partners in a firm. Their partnership agreement provides that:
    (i) Profits would be shared by Sukesh and Vanita in the ratio of 3:2;
    (ii) 5% interest is to be allowed on capital;
    (iii) Vanita should be paid a monthly salary of Rs. 600.

    The following balances are extracted from the books of the firm, on March 31, 2017.

| | *Sukesh (Rs.)* | *Vanita (Rs.)* |
|---|---|---|
| Capital Accounts | 40,000 | 40,000 |
| Current Accounts | (Cr.) 7,200 | (Cr.) 2,800 |
| Drawings | 10,850 | 8,150 |

    Net profit for the year, before charging interest on capital and after charging Sukesh's salary was Rs. 9,500. Prepare the Profit and Loss Appropriation Account and the Partner's Current Accounts.

    (**Ans :** Profit transferred to Sukesh's Capital, Rs.3,300 and Vanita's Capital, Rs. 2,200)

14. Rahul, Rohit and Karan started partnership business on April 1, 2019 with capitals of Rs. 20,00,000, Rs. 18,00,000 and Rs. 16,00,000, respectively. The profit for the year ended March 2020 amounted to Rs.1,35,000 and the partner's drawings had been Rahul Rs. 50,000, Rohit Rs. 50,000 and Karan

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Rs. 40,000. The profits are distributed among partner's in the ratio of 3:2:1. Calculate the interest on capital @ 5% p.a.

(**Ans :** Rahul, Rs. 1,00,000, Rohit, Rs. 90,000, Karan Rs. 80,000)

15. Sunflower and Pink Rose started partnership business on April 01, 2019 with capitals of Rs. 2,50,000 and Rs.1,50,000, respectively. On October 01, 2019, they decided that their capitals should be Rs. 2,00,000 each. The necessary adjustments in the capitals are made by introducing or withdrawing cash. Interest on capital is to be allowed @ 10% p.a. Calculate interest on capital as on March 31, 2020.

(**Ans :** Total interest on Sunflower's Capital Rs. 22,500 and on Pink Rose's Capital, Rs. 17,500)

16. On March 31, 2017 after the close of accounts, the capitals of Mountain, Hill and Rock stood in the books of the firm at Rs. 4,00,000,Rs.3,00,000 and Rs. 2,00,000, respectively. Subsequently, it was discovered that the interest on capital @ 10% p.a. had been omitted. The profit for the year amounted to Rs. 1,50,000 and the partner's drawings had been Mountain: Rs. 20,000, Hill Rs. 15,000 and Rock Rs. 10,000.
Calculate interest on capital.

(**Ans :** Interest on Capital: Mountain, Rs.37,000; Hill, Rs.26,500; Rock, Rs.16,000)

17. Following is the extract of the Balance Sheet of, Neelkant and Mahadev as on March 31, 2020:

**Balance Sheet as at March 31, 2020**

| *Liabilities* | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|
| Neelkant's Capital | 10,00,000 | Sundry Assets | 30,00,000 |
| Mahadev's Capital | 10,00,000 | | |
| Neelkant's Current Account | 1,00,000 | | |
| Mahadev's Current Account | 1,00,000 | | |
| Profit and Loss Apprpriation (March 2017) | 8,00,000 | | |
| | **30,00,000** | | **30,00,000** |

During the year Mahadev's drawings were Rs. 30,000. Profits during 2019-20 is Rs. 10,00,000. Calculate interest on capital @ 5% p.a for the year ending March 31, 2020.

(**Ans :** Interest on Neelkant's Capital, Rs. 50,000 and Mahadev's Capital, Rs. 50,000)

18. Rishi is a partner in a firm. He withdrew the following amounts during the year ended March 31, 2020.

| | |
|---|---|
| May 01, 2019 | Rs. 12,000 |
| July 31, 2019 | Rs. 6,000 |

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| | |
|---|---|
| September 30, 2019 | Rs. 9,000 |
| November 30, 2019 | Rs. 12,000 |
| January 01, 2020 | Rs. 8,000 |
| March 31, 2020 | Rs. 7,000 |

Interest on drawings is charged @ 9% p.a.
Calculate interest on drawings

(**Ans :** Interest on Drawing Rs. 2,295)

19. The capital accounts of Moli and Golu showed balances of Rs.40,000 and Rs. 20,000 as on April 01, 2019. They shared profits in the ratio of 3:2. They allowed interest on capital @ 10% p.a. and interest on drawings, @ 12 p.a. Golu advanced a loan of Rs. 10,000 to the firm on August 01, 2019.
During the year, Moli withdrew Rs. 1,000 per month at the beginning of every month whereas Golu withdrew Rs. 1,000 per month at the end of every month. Profit for the year, before the above mentioned adjustments was Rs.20,950. Calculate interest on drawings show distribution of profits and prepare partner's capital accounts.

(**Ans :** Interest on Drawings : Moli, Rs. 780; Golu, Rs. 660; Profits Moli, Rs. 9,594; Golu, Rs. 6,396)

20. Rakesh and Roshan are partners, sharing profits in the ratio of 3:2 with capitals of Rs. 40,000 and Rs. 30,000, respectively. They withdrew from the firm the following amounts, for their personal use:

| *Rakesh* | *Month* | *Rs.* |
|---|---|---|
| | May 31, 2019 | 600 |
| | June 30, 2019 | 500 |
| | August 31, 2019 | 1,000 |
| | November 1, 2019 | 400 |
| | December 31, 2019 | 1,500 |
| | January 31, 2020 | 300 |
| | March 01, 2020 | 700 |
| *Rohan* | *At the beginning of each month* | *400* |

Interest on drawings is to be charged @ 6% p.a. Calculate interest on drawings, assuming that book of accounts are closed on March 31, 2020, every year.

(**Ans :** Interest on Rakesh's Drawings : Rs. 126.50; Rohan's Drawings Rs. 156 rounded off to nearest rupee)

21. Himanshu withdrew Rs. 2,500 at the end of each month. The Partnership deed provides for charging interest on drawings @ 12% p.a. Calculate interest on Himanshu's drawings for the year ending March 31, 2017.

(**Ans :** Interest on Drawings Rs.1,650)

22. Bharam is a partner in a firm. He withdraws Rs. 3,000 at the starting of each month for 12 months. The books of the firm are closed on March 31 every year. Calculate interest on drawings if the rate of interest is 10% p.a.

(**Ans :** Interest on Drawings, Rs.1,950)

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23. Raj and Neeraj are partners in a firm. Their capitals as on April 01, 2019 were Rs. 2,50,000 and Rs. 1,50,000, respectively. They share profits equally. On July 01, 2019, they decided that their capitals should be Rs. 1,00,000 each. The necessary adjustment in the capitals were made by introducing or withdrawing cash by the partners'. Interest on capital is allowed @ 8% p.a. Compute interest on capital for both the partners for the year ending on March 31, 2020.

    (**Ans :** Raj Rs. 11,000 and Neeraj's Rs. 9,000)

24. Amit and Bhola are partners in a firm. They share profits in the ratio of 3:2. As per their partnership agreement, interest on drawings is to be charged @ 10% p.a. Their drawings during 2019 were Rs. 24,000 and Rs. 16,000, respectively. Calculate interest on drawings based on the assumption that the amounts were withdrawn evenly, throughout the year.

    (**Ans :** Interest on Amit's Drawings, Rs. 1,200 and Bhola's, Rs.800)

25. Harish is a partner in a firm. He withdrew the following amounts during the year 2019 :

| | *Rs.* |
|---|---|
| May 2019 | 4,000 |
| August 2019 | 12,000 |
| September 2019 | 4,000 |
| December 2019 | 12,000 |
| March 2020 | 4,000 |

    Interest on drawings is to be charged @ $7\frac{1}{2}$% p.a.
    Calculate the amount of interest to be charged on Harish's drawings for the year ending December 31, 2020.

    (**Ans :** Interest on Drawings, Rs.1,800)

26. Menon and Thomas are partners in a firm. They share profits equally. Their monthly drawings are Rs. 2,000 each. Interest on drawings is to be charged @ 10% p.a. Calculate interest on Menon's drawings for the year 2006, assuming that money is withdrawn: (i) in the beginning of every month, (ii) in the middle of every month, and (iii) at the end of every month.

    (**Ans :** (i) Interest on Drawings, Rs.1,300; (ii) Rs.1,200; (iii) Rs.1,100)

27. On March 31, 2017, after the close of books of accounts, the capital accounts of Ram, Shyam and Mohan showed balance of Rs. 24,000 Rs. 18,000 and Rs. 12,000, respectively. It was later discovered that interest on capital @ 5% had been omitted. The profit for the year ended March 31, 2017, amounted to Rs. 36,000 and the partner's drawings had been Ram, Rs. 3,600; Shyam, Rs. 4,500 and Mohan, Rs. 2,700. The profit sharing ratio of Ram, Shyam and Mohan was 3:2:1. Calculate interest on capital.

    (**Ans :** Interest on Ram's Capital Rs.480; Shyam's Capital, Rs.525 and Mohan's Capital, Rs.435)

28. Amit, Sumit and Samiksha are in partnership sharing profits in the ratio of 3:2:1. Samiksha' share in profit has been guaranteed by Amit and Sumit to

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be a minimum sum of Rs. 8,000. Profits for the year ended March 31, 2017 was Rs. 36,000. Divide profit among the partners by preparing profit and loss appropriation account.

(**Ans :** Profit to Amit Rs. 16,800; Sumit, Rs. 11,200; Samiksha, Rs. 8,000)

29. Pinki, Deepti and Kaku are partner's sharing profits in the ratio of 5:4:1. Kaku is given a guarantee that his share of profits in any given year would not be less than Rs. 5,000. Deficiency, if any, would be borne by Pinki and Deepti equally. Profits for the year amounted to Rs. 40,000. Record necessary journal entries in the books of the firm showing the distribution of profit.

(**Ans :** Deficiency borne by Pinki and Deepti Rs.500 each)

30. Abhay, Siddharth and Kusum are partners in a firm, sharing profits in the ratio of 5:3:2. Kusum is guaranteed Rs. 10,000 as her share in the profits. Any deficiency arising on that account shall be met by Siddharth. Profits for the years ending March 31, 2016 and 2017 are Rs. 40,000 and 60,000 respectively. Prepare Profit and Loss Appropriation Account.

(**Ans :** year 2015 - Abhay Rs. 20,000, Siddharth Rs. 10,000, Kusum Rs. 10,000; year 2016- Abhay Rs. 30,000, Siddharth Rs. 18,000, Kusum Rs. 12,000)

31. Radha, Mary and Fatima are partners sharing profits in the ratio of 5:4:1. Fatima is given a guarantee that her share of profit, in any year will not be less than Rs. 5,000. The profits for the year ending March 31, 2020 amounted to Rs. 35,000. Shortfall if any, in the profits guaranteed to Fatima is to be borne by Radha and Mary in the ratio of 3:2. Record necessary journal entry to show distributioin of profit among the partner.

(**Ans :** Deficiency borne by Radha, Rs. 900 and Mary, Rs. 600)

32. X, Y and Z are in Partnership, sharing profits and losses in the ratio of 3 : 2 : 1, respectively. Z's share in the profit is guaranteed by X and Y to be a minimum of Rs. 8,000. The net profit for the year ended March 31, 2020 was Rs. 30,000. Prepare Profit and Loss Appropriation Account.
(**Ans :** Profit to X Rs.13,200; Y Rs.8,800; Z Rs.8,000)

33. Arun, Boby and Chintu are partners in a firm sharing profit in the ratio or 2:2:1. According to the terms of the partnership agreement, Chintu has to get a minimum of Rs. 60,000, irrespective of the profits of the firm. Any Deficiency to Chintu on Account of such guarantee shall be borne by Arun. Prepare the Profit and loss Appropriation Account showing distribution of profits among the partners in case the profits for year 2015 are: (i) Rs. 2,50,000; (ii) 3,60,000.

(**Ans :** (i) Profit to Arun Rs.90,000, Boby Rs.1,00,000 and Chintu Rs.60,000
(ii) Profit to Arun Rs.1,44,000, Boby Rs.1,44,000 and Chintu Rs.72,000)

34. Ashok, Brijesh and Cheena are partners sharing profits and losses in the ratio of 2 : 2 : 1. Ashok and Brijesh have guaranteed that Cheena share in any year shall be Rs. 20,000. The net profit for the year ended March 31, 2017 amounted

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to Rs. 70,000. Prepare Profit and Loss Appropriation Account.

(**Ans :** Profit to Ashok Rs.25,000, Brijesh Rs. 25,000 and Cheena Rs. 20,000)

35. Ram, Mohan and Sohan are partners with capitals of Rs. 5,00,000, Rs. 2,50,000 and 2,00,000 respectively. After providing interest on capital @ 10% p.a. the profits are divisible as follows:

Ram $\frac{1}{2}$, Mohan $\frac{1}{3}$ and Sohan $\frac{1}{6}$. Ram and Mohan have guaranteed that Sohan's share in the profit shall not be less than Rs. 25,000, in any year. The net profit for the year ended March 31, 2017 is Rs. 2,00,000, before charging interest on capital.

You are required to show distribution of profit by preparing P & L Appropriation Account.

(**Ans :** Profit to Ram, Rs. 48,000, Mohan, Rs. 32,000 and Sohan, Rs. 25,000)

36. Amit, Babita and Sona form a partnership firm, sharing profits in the ratio of 3 : 2 : 1, subject to the following :
    (i) Sona's share in the profits, guaranteed to be not less than Rs. 15,000 in any year.
    (ii) Babita gave guarantee to the effect that gross fee earned by her for the firm shall be equal to her average gross fee of the proceeding five years, when she was carrying on profession alone (which is Rs. 25,000). The net profit for the year ended March 31, 2017 is Rs. 75,000. The gross fee earned by Babita for the firm was Rs. 16,000.

    You are required to prepare Profit and Loss Appropriation Account.

    (**Ans :** Profit transferred to Capital Accounts of; Amit, Rs. 41,400, Babita, Rs.27,600 and Sona, Rs.15,000)

37. The net profit of X, Y and Z for the year ended March 31, 2020 was Rs. 60,000 and the same was distributed among them in their agreed ratio of 3 : 1 : 1. It was subsequently discovered that the under mentioned transactions were not recorded in the books :
    (i) Interest on Capital @ 5% p.a.
    (ii) Interest on drawings amounting to X Rs. 700, Y Rs. 500 and Z Rs. 300.
    (iii) Partner's Salary : X Rs. 1000, Y Rs. 1500 p.a.

    The capital accounts of partners were fixed as : X Rs. 1,00,000, Y Rs. 80,000 and Z Rs. 60,000. Record the adjustment entry.

    (**Ans :** X Dr. Rs.2,500 , Y credit Rs.2,400 and Z credit Rs.100]

38. The firm of Harry, Porter and Ali, who have been sharing profits in the ratio of 2 : 2 : 1, have existed for same years. Ali wants that he should get equal share in the profits with Harry and Porter and he further wishes that the change in the profit sharing ratio should come into effect retrospectively were for the last three year. Harry and Porter have agreement on this account.

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The profits for the last three years were:

| | *(Rs.)* |
|---|---|
| 2014-15 | 22,000 |
| 2015-16 | 24,000 |
| 2016-17 | 29,000 |

Show adjustment of profits by means of a single adjustment journal entry.

(**Ans :** Harry (Dr.) Rs.5,000, Porter (Dr.) Rs.5,000 and Ali (Cr.) Rs.10,000)

39. Mannu and Shristhi are partners in a firm sharing profit in the ratio of 3 : 2. Following is the balance sheet of the firm as on March 31, 2017.

**Balance Sheet as at March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Mannu's Capital | 30,000 | | Drawings : | | |
| Shristhi's Capital | 10,000 | 40,000 | Mannu | 4,000 | |
| | | | Shristhi | 2,000 | 6,000 |
| | | | Other Assets | | 34,000 |
| | | **40,000** | | | **40,000** |

Profit for the year ended March 31, 2017 was Rs. 5,000 which was divided in the agreed ratio, but interest @ 5% p.a. on capital and @ 6% p.a. on drawings was omitted. Adjust interest on drawings on an average basis for 6 months. Give the adjustment entry.

(**Ans :** Mannu (Cr.) Rs.288 and Shrishti (Dr.) Rs.288)

40. On March 31, 2017 the balance in the capital accounts of Eluin, Monu and Ahmed, after making adjustments for profits, drawing, etc; were Rs. 80,000, Rs. 60,000 and Rs. 40,000 respectively. Subsequently, it was discovered that interest on capital and interest on drawings had been omitted.

The partners were entitled to interest on capital @ 5% p.a. The drawings during the year were Eluin Rs. 20,000; Monu, Rs. 15,000 and Ahmed, Rs. 9,000. Interest on drawings chargeable to partners were Eluin Rs, 500, Monu Rs. 360 and Ahmed Rs. 200. The net profit during the year amounted to Rs. 1,20,000. The profit sharing ratio was 3 : 2 : 1. Record necessary adjustment entry.

(**Ans :** Eluin (Dr.) Rs.570, Monu (Cr.) Rs.10 and Ahmed (Cr.) Rs.560)

41. Azad and Benny are equal partners. Their fixed capitals are Rs. 40,000 and Rs. 80,000, respectively. After the accounts for the year have been prepared it is discovered that interest at 5% p.a. as provided in the partnership agreement, has not been credited to the capital accounts before distribution of profits. It is decided to make an adjustment entry at the beginning of the next year. Record the necessary journal entry.

(**Ans :** Azad (Dr.)1,000 and Benny (Cr.)1,000)

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42. Mohan, Vijay and Anil are partners, the balances in their capital accounts being Rs. 30,000, Rs. 25,000 and Rs. 20,000 respectively. In arriving at these figures, the profits for the year ended March 31, 2017 amounting to Rupees 24,000 had been credited to partners in the proportion in which they shared profits. During the year the drawings of Mohan, Vijay and Anil were Rs. 5,000, Rs. 4,000 and Rs. 3,000, respectively. Subsequently, the following omissions were noticed:
    (a) Interest on Capital, at the rate of 10% p.a., was not charged.
    (b) Interest on Drawings: Mohan Rs. 250, Vijay Rs. 200, Anil Rs. 150 was not recorded in the books.

    Record necessary corrections through journal entries.

    (**Ans :** Debit Anil's Capital Account by Rs. 550 and Credit Mohan's Capital Account by Rs. 550)

43. Anju, Manju and Mamta are partners whose fixed capitals were Rs. 10,000, Rs. 8,000 and Rs. 6,000, respectively. As per the partnership agreement, there is a provision for allowing interest on capitals @ 5% p.a. but entries for the same have not been made for the last three years. The profit sharing ratio during there years remained as follows:

| Year | Anju | Manju | Mamta |
|---|---|---|---|
| 2016 | 4 | 3 | 5 |
| 2017 | 3 | 2 | 1 |
| 2018 | 1 | 1 | 1 |

    Make necessary and adjustment entry at the beginning of the fourth year i.e. April 2019.

    (**Ans :** Mamta (Dr.) Rs. 200, Anju (Cr.) Rs. 100 and Manju (Cr.) Rs. 100)

## *Checklist to Test your Understanding*

*Test your Understanding – I*

1. (i) Invalid (ii) Invalid (iii) Valid (iv) Invalid
2. (i) True (ii) True (iii) True (iv) False (v) False (vi) False

*Test your Understanding – II*

1. (i) Interest on loan given @ 6% p.a.
   (ii) No interest allowed on capital and charged on drawings
   (iii) Salary and Commission not given to partner
   (iv) Profit to the shared equally
2. Profit : Reena, Rs. 33,750; Raman, Rs. 33,750

*Test your Understanding – III*

1. Interest on capital; Rani, Rs. 9,000; Suman, Rs. 6,300
2. (a) Profit : Priya, Rs. 78,750; Kajal, Rs. 47,250
   (b) Profit NIL. Interest on capital: Priya, Rs. 54.000; Kajal, Rs. 72,000

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# Reconstitution of a Partnership Firm – Admission of a Partner

**2**

**LEARNING OBJECTIVES**

*After studying this chapter you will be able to:*

- *Explain the concept of reconstitution of a partnership firm;*
- *Identify the matters that need adjustments in the books of firm when a new partner is admitted;*
- *Determine the new profit sharing ratio and calculate the sacrificing ratio;*
- *Define goodwill and enumerate the factors that affect it;*
- *Explain the methods of valuation of goodwill;*
- *Describe how goodwill will be treated under different situations when a new partner is admitted;*
- *Make necessary adjustments for revaluation of assets and reassessment of liabilities;*
- *Make necessary adjustments for accumulated profits and losses;*
- *Determine the capital of each partner, if required according to the new profit sharing ratio and make necessary adjustments;*
- *Make necessary adjustments on change in the profit sharing ratio among the existing partners.*

Partnership is an agreement between two or more persons (called partners) for sharing the profits of a business carried on by all or any of them acting for all. Any change in the existing agreement amounts to reconstitution of the partnership firm. This results in an end of the existing agreement and a new agreement comes into being with a changed relationship among the members of the partnership firm and/or their composition. However, the firm continues. The partners often resort to reconstitution of the firm in various ways such as admission of a new partner, change in profit sharing ratio, retirement of a partner, death or insolvence of a partner. In this chapter we shall have a brief idea about all these and in detail about the accounting implications of admission of a new partner or an on change in the profit sharing ratio.

## 2.1 Modes of Reconstitution of a Partnership Firm

*Reconstitution of a partnership firm usually takes place in any of the following ways:*

*Admission of a new partner:* A new partner may be admitted when the firm needs additional capital or managerial help. According to the provisions of Partnership Act 1932 unless it is otherwise provided in the partnership deed a new partner can be admitted only when the existing partners unanimously agree for it. For example, Hari and Haqque are partners sharing profits in the ratio of

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3:2. On April 1, 2017 they admitted John as a new partner with 1/6 share in profits of the firm. With this change now there are three partners of the firm and it stands reconstituted.

*Change in the profit sharing ratio among the existing partners:* Sometimes the partners of a firm may decide to change their existing profit sharing ratio. This may happen an account of a change in the existing partners' role in the firm. For example, Ram, Mohan and Sohan are partners in a firm sharing profits in the ratio of 3:2:1. With effect from April 1,2017 they decided to share profits equally as Sohan brings in additional capital. This results in a change in the existing agreement leading to reconstitution of the firm.

*Retirement of an existing partner:* It means withdrawal by a partner from the business of the firm which may be due to his bad health, old age or change in business interests. In fact a partner can retire any time if the partnership is at will. For example, Roy, Ravi and Rao are partners in the firm sharing profits in the ratio of 2:2:1. On account of illness, Ravi retired from the firm on March 31, 2017. This results in reconstitution of the firm now having only two partners.

*Death of a partner:* Partnership may also stand reconstituted on death of a partner, if the remaining partners decide to continue the business of the firm as usual. For example, X,Y and Z are partners in a firm sharing profits in the ratio 3:2:1. X died on March 31, 2017. Y and Z decide to carry on the business sharing future profits equally. The continuity of business by Y and Z sharing future profits equally leads to reconstitution of the firm.

## 2.2 Admission of a New Partner

When firm requires additional capital or managerial help or both for the expansion of its business a new partner may be admitted to supplement its existing resources. According to the Partnership Act 1932, a new partner can be admitted into the firm only with the consent of all the existing partners unless otherwise agreed upon. With the admission of a new partner, the partnership firm is reconstituted and a new agreement is entered into to carry on the business of the firm.

A newly admitted partner acquires two main rights in the firm–

1. Right to share the assets of the partnership firm; and
2. Right to share the profits of the partnership firm.

For the right to acquire share in the assets and profits of the partnership firm, the partner brings an agreed amount of capital either in cash or in kind. Moreover, in the case of an established firm which may be earning more profits than the normal rate of return on its capital the new partner is required to contribute some additional amount known as premium or goodwill. This is done

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primarily to compensate the sacrificing partners for loss of their share in super profits of the firm.

Following are the other important points which require attention at the time of admission of a new partner:

1. New profit sharing ratio;
2. Sacrificing ratio;
3. Valuation and adjustment of goodwill;
4. Revaluation of assets and Reassessment of liabilities;
5. Distribution of accumulated profits (reserves); and
6. Adjustment of partners' capitals.

## 2.3 New Profit Sharing Ratio

When new partner is admitted he acquires his share in profits from the old partners. In other words, on the admission of a new partner, the old partners sacrifice a share of their profit in favour of the new partner. But, what will be the share of new partner and how he will acquire it from the existing partners is decided mutually among the old partners and the new partner. However, if nothing is specified as to how does the new partner acquire his share from the old partners; it may be assumed that he gets it from them in their profit sharing ratio. In any case, on admission of a new partner, the profit sharing ratio among the old partners will change keeping in view their respective contribution to the profit sharing ratio of the incoming partner. Hence, there is a need to ascertain the new profit sharing ratio among all the partners. This depends upon how does the new partner acquires his share from the old partners for which there are many possibilities. Let us understand it with the help of the following illustrations.

### *Illustration 1*

Anil and Vishal are partners sharing profits in the ratio of 3:2. They admitted Sumit as a new partner for 1/5 share in the future profits of the firm. Calculate new profit sharing ratio of Anil, Vishal and Sumit.

### *Solution*

Sumit's share = $\frac{1}{5}$

Remaining share = $1 - \frac{1}{5}$ = $\frac{4}{5}$

Anil's new share = $\frac{3}{5}$ of $\frac{4}{5}$ = $\frac{12}{25}$

Vishal's new share = $\frac{2}{5}$ of $\frac{4}{5}$ = $\frac{8}{25}$

New profit sharing ratio of Anil, Vishal and Sumit will be 12:8:5.

*Note:* It has been assumed that the new partner acquired his share from old partners in old ratio.

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***Illustration 2***

Akshay and Bharati are partners sharing profits in the ratio of 3:2. They admit Dinesh as a new partner for 1/5th share in the future profits of the firm which he gets equally from Akshay and Bharati. Calculate new profit sharing ratio of Akshay, Bharati and Dinesh.

***Solution***

Dinesh's share = $\frac{1}{5}$ or $\frac{2}{10}$

Akshay's share = $\frac{3}{5} - \frac{1}{10} = \frac{5}{10}$

Bharati's share = $\frac{2}{5} - \frac{1}{10} = \frac{3}{10}$

New profit sharing ratio between Akshay, Bharati and Dinesh will be 5:3:2.

***Illustration 3***

Anshu and Nitu are partners sharing profits in the ratio of 3:2. They admitted Jyoti as a new partner for 3/10 share which she acquired 2/10 from Anshu and 1/10 from Nitu. Calculate the new profit sharing ratio of Anshu, Nitu and Jyoti.

***Solution***

Jyoti's share = $\frac{3}{10}$

Anshu's new share = $\frac{3}{5} - \frac{2}{10} = \frac{4}{10}$

Nitu's new share = Old share – Share Surrendered

= $\frac{2}{5} - \frac{1}{10} = \frac{3}{10}$

The new profit sharing ratio between
Anshu, Nitu and Jyoti will be 4 : 3 : 3.

***Illustration 4***

Ram and Shyam are partners in a firm sharing profits in the ratio of 3:2. They admit Ghanshyam as a new partner. Ram sacrificed 1/4 of his share and Shyam 1/3 of his share in favour of Ghanshyam. Calculate new profit sharing ratio of Ram, Shyam and Ghanshyam.

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***Solution***

Ram's old share = $\frac{3}{5}$

Share sacrificed by Ram = $\frac{1}{4}$ of $\frac{3}{5} = \frac{3}{20}$

Ram's new share = $\frac{3}{5} - \frac{3}{20} = \frac{9}{20}$

Shyam's old share = $\frac{2}{5}$

Share sacrificed by Shyam = $\frac{1}{3}$ of $\frac{2}{5} = \frac{2}{15}$

Shyam's new share = $\frac{2}{5} - \frac{2}{15} = \frac{4}{15}$

Ghanshyam's new share = Ram's sacrifice + Shyam's Sacrifice

= $\frac{3}{20} + \frac{2}{15} = \frac{17}{60}$

New profit sharing ratio among Ram, Shyam and Ghanshyam will be 27:16:17.

***Illustration 5***

Das and Sinha are partners in a firm sharing profits in 4:1 ratio. They admitted Pal as a new partner for 1/4 share in the profits, which he acquired wholly from Das. Determine the new profit sharing ratio of the partners.

***Solution***

Pal's share = $\frac{1}{4}$

Das's new share = Old Share – Share Surrendered

= $\frac{4}{5} - \frac{1}{4} = \frac{11}{20}$

Sinha's new share = $\frac{1}{5}$

The new profit sharing ratio among Das, Sinha and Pal will be 11:4:5.

## 2.4 Sacrificing Ratio

The ratio in which the old partners agree to sacrifice their share of profit in favour of the incoming partner is called sacrificing ratio. The sacrifice by a partner is equal to :

**Old Share of Profit – New Share of Profit**

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As stated earlier, the new partner is required to compensate the old partner's for their loss of share in the super profits of the firm for which he brings in an additional amount as premium for goodwill. This amount is shared by the existing partners in the ratio in which they forgo their shares in favour of the new partner which is called sacrificing ratio.

The ratio is normally clearly given as agreed among the partners which could be the old ratio, equal sacrifice, or a specified ratio. The difficulty arises where the ratio in which the new partner acquires his share from the old partners is not specified. Instead, the new profit sharing ratio is given. In such a situation, the sacrificing ratio is to be worked out by deducting each partner's new share from his old share. Look at the illustrations 6 to 8 and see how sacrificing ratio is calculated in such a situation.

### *Illustration 6*

Rohit and Mohit are partners in a firm sharing profits in the ratio of 5:3. They admit Bijoy as a new partner for 1/7 share in the profit. The new profit sharing ratio will be 4:2:1. Calculate the sacrificing ratio of Rohit and Mohit.

### *Solution*

Rohit's old share = $\frac{5}{8}$

Rohit's new share = $\frac{4}{7}$

Rohit's sacrifice = $\frac{5}{8} - \frac{4}{7} = \frac{3}{56}$

Mohit's old share = $\frac{3}{8}$

Mohit's new share = $\frac{2}{7}$

Mohit's sacrifice = $\frac{3}{8} - \frac{2}{7} = \frac{5}{56}$

Sacrificing ratio among Rohit and Mohit will be 3:5.

### *Illustration 7*

Amar and Bahadur are partners in a firm sharing profits in the ratio of 3:2. They admitted Mary as a new partner for 1/4 share. The new profit sharing ratio between Amar and Bahadur will be 2:1. Calculate their sacrificing ratio.

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***Solution***

Mary's share = $\frac{1}{4}$

Remaining share = $1 - \frac{1}{4} = \frac{3}{4}$

This 3/4 share is to be shared by Amar and Bahadur in the ratio of 2:1.
Therefore,

Amar's new share = $\frac{2}{3}$ of $\frac{3}{4} = \frac{6}{12}$ or $\frac{2}{4}$

Bahadur's new share = $\frac{1}{3}$ of $\frac{3}{4} = \frac{3}{12}$ or $\frac{1}{4}$

New profit sharing ratio of Amar, Bahadur and Mary will be 2:1:1.

Amar's sacrifice = $\frac{3}{5} - \frac{2}{4} = \frac{2}{20}$

Bahadur's sacrifice = $\frac{2}{5} - \frac{1}{4} = \frac{3}{20}$

Sacrificing ratio among Amar and Bahadur will be 2:3.

***Illustration 8***

Ramesh and Suresh are partners in a firm sharing profits in the ratio of 4:3. They admitted Mohan as a new partner. The profit sharing ratio of Ramesh, Suresh and Mohan will be 2:3:1. Calculate the gain or sacrifice of old partner.

***Solution***

Ramesh's old share = $\frac{4}{7}$

Ramesh's new share = $\frac{2}{6}$

Ramesh's sacrifice = $\frac{4}{7} - \frac{2}{6} = \frac{10}{42}$

Suresh's new share = $\frac{3}{6}$

Suresh's old share = $\frac{3}{7}$

Suresh's gain = $\frac{3}{6} - \frac{3}{7} = \frac{3}{42}$

Mohan's share = $\frac{1}{6}$ or $\frac{7}{42}$

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Ramesh's sacrifice = Suresh's gain+Mohan's gain

$$= \frac{3}{42} + \frac{7}{42} = \frac{10}{42}$$

In this case, the whole sacrifice is by Ramesh alone.

**Test your Understanding - I**

1. A and B are partners sharing profits in the ratio of 3:1. They admit C for 1/4 share in the future profits. The new profit sharing ratio will be:

   (a) A $\frac{9}{16}$, B $\frac{3}{16}$, C $\frac{4}{16}$

   (b) A $\frac{8}{16}$, B $\frac{4}{16}$, C $\frac{4}{16}$

   (c) A $\frac{10}{16}$, B $\frac{2}{16}$, C $\frac{4}{16}$

   (d) A $\frac{8}{16}$, B $\frac{9}{16}$, C $\frac{10}{16}$

2. X and Y share profits in the ratio of 3:2. Z was admitted as a partner who sets 1/5 share. New profit sharing ratio, if Z acquires 3/20 from X and 1/20 from Y would be:
   (a) 9 : 7 : 4 (b) 8 : 8 : 4 (c) 6 : 10 : 4 (d) 10 : 6 : 4

3. A and B share profits and losses in the ratio of 3 : 1, C is admitted into partnership for 1/4 share. The sacrificing ratio of A and B is:
   (a) equal (b) 3 : 1 (c) 2 : 1 (d) 3 : 2.

## 2.5 Goodwill

Goodwill is also one of the special aspects of partnership accounts which requires adjustment (also valuation if not specified) at the time of reconstitution of a firm viz., a change in the profit sharing ratio, the admission of a partner or the retirement or death of a partner.

### *2.5.1 Meaning of Goodwill*

Over a period of time, a well-established business develops an advantage of good name, reputation and wide business connections. This helps the business to earn more profits as compared to a newly set up business. In accounting, the monetary value of such advantage is known as "goodwill".

It is as an intangible asset. In other words, goodwill is the value of the reputation of a firm in respect of the profits expected in future over and above the normal profits. It is generally observed that when a person pays for goodwill,

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he/she pays for something, which places him in the position of being able to earn super profits as compared to the profit earned by other firms in the same industry.

In simple words, goodwill can be defined as "the present value of a firm's anticipated excess earnings" or as "the capitalised value attached to the differential profit capacity of a business". Thus, goodwill exists only when the firm earns super profits. Any firm that earns normal profits or is incurring losses has no goodwill.

### 2.5.2 Factors Affecting the Value of Goodwill

The main factors affecting the value of goodwill are as follows:

1. *Nature of business:* A firm that produces high value added products or having a stable demand is able to earn more profits and therefore has more goodwill.
2. *Location:* If the business is centrally located or is at a place having heavy customer traffic, the goodwill tends to be high.
3. *Efficiency of management:* A well-managed concern usually enjoys the advantage of high productivity and cost efficiency. This leads to higher profits and so the value of goodwill will also be high.
4. *Market situation:* The monopoly condition or limited competition enables the concern to earn high profits which leads to higher value of goodwill.
5. *Special advantages:* The firm that enjoys special advantages like import licences, low rate and assured supply of electricity, long-term contracts for supply of materials, well-known collaborators, patents, trademarks, etc. enjoy higher value of goodwill.

### 2.5.3 Need for Valuation of Goodwill

Normally, the need for valuation of goodwill arises at the time of sale of a business. But, in the context of a partnership firm it may also arise in the following circumstances:

1. Change in the profit sharing ratio amongst the existing partners;
2. Admission of new partner;
3. Retirement of a partner;
4. Death of a partner; and
5. Dissolution of a firm involving sale of business as a going concern.
6. Amalgamation of partnership firms.

### 2.5.4 Methods of Valuation of Goodwill

Since goodwill is an intangible asset it is very difficult to accurately calculate its value. Various methods have been advocated for the valuation of goodwill of a partnership firm. Goodwill calculated by one method may differ from the goodwill

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calculated by another method. Hence, the method by which goodwill is to be calculated, may be specifically decided between the existing partners and the incoming partner.

The important methods of valuation of goodwill are as follows:

1. Average Profits Method
2. Super Profits Method
3. Capitalisation Method

### *2.5.4.1 Average Profits Method*

Under this method, the goodwill is valued at agreed number of 'years' purchase of the average profits of the past few years. It is based on the assumption that a new business will not be able to earn any profits during the first few years of its operations. Hence, the person who purchases a running business must pay in the form of goodwill a sum which is equal to the profits he is likely to receive for the first few years. The goodwill, therefore, should be calculated by multiplying the past average profits by the number of years during which the anticipated profits are expected to accrue.

For example, if the past average profits of a business works out at Rs. 20,000 and it is expected that such profits are likely to continue for another three years, the value of goodwill will be Rs. 60,000 (Rs. 20,000 × 3),

***Illustration 9***

The profit for the five years of a firm are as follows – year 2013 Rs. 4,00,000; year 2014 Rs. 3,98,000; year 2015 Rs. 4,50,000; year 2016 Rs. 4,45,000 and year 2017 Rs. 5,00,000. Calculate goodwill of the firm on the basis of 4 years purchase of 5 years average profits.

***Solution***

| *Year* | *Profit (Rs.)* |
|---|---|
| 2013 | 4,00,000 |
| 2014 | 3,98,000 |
| 2015 | 4,50,000 |
| 2016 | 4,45,000 |
| 2017 | 5,00,000 |
| **Total** | **21,93,000** |

Average Profit = $\frac{\text{Total Profit of Last 5 Years}}{\text{No. of years}}$ = Rs. $\frac{21,93,000}{5}$ = Rs. 4,38,600

Goodwill = Average Profits × No. of years purchased

= Rs. 4,38,600 × 4 = Rs. 17,54,400

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The above calculation of goodwill is based on the assumption that no change in the overall situation of profits is expected in the future.

The above illustration is based on simple average. Sometimes, if there exists an increasing on decreasing trend, it is considered to be better to give a higher weightage to the profits to the recent years than those of the earlier years. Hence, it is a advisable to work out weighted average based on specified weights like 1, 2, 3, 4 for respective year's profit. However, weighted average should be used only if specified. (See illustrations 10 and 11).

### *Illustration 10*

The profits of firm for the five years are as follows:

| *Year* | *Profit (Rs.)* |
|---|---|
| 2012–13 | 20,000 |
| 2013–14 | 24,000 |
| 2014–15 | 30,000 |
| 2015–16 | 25,000 |
| 2016–17 | 18,000 |

Calculate the value of goodwill on the basis of three years' purchase of weighted average profits based on weights 1,2,3,4 and 5 respectively.

### *Solution*

| *Year Ended 31st March* | *Profit (Rs.)* | *Weight* | *Product* |
|---|---|---|---|
| 2012–13 | 20,000 | 1 | 20,000 |
| 2013–14 | 24,000 | 2 | 48,000 |
| 2014–15 | 30,000 | 3 | 90,000 |
| 2015–16 | 25,000 | 4 | 1,00,000 |
| 2016–17 | 18,000 | 5 | 90,000 |
| | | 15 | 3,48,000 |

$$\text{Weighted Average Profit} = \text{Rs. } \frac{3,48,000}{15} = \text{Rs. } 23,200$$

$$\text{Goodwill} = \text{Rs. } 23,200 \times 3 = \text{Rs. } 69,600$$

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### *Illustration 11*

Calculate goodwill of a firm on the basis of three year' purchase of the weighted average profits of the last four years. The profit of the last four years were: 2012 Rs. 20,200; 2013 Rs. 24,800; 2014 Rs. 20,000 and 2015 Rs. 30,000. The weights assigned to each year are : 2012 – 1; 2013 – 2; 2014 – 3 and 2015 – 4.
You are supplied the following information:

1. On September 1, 2014 a major plant repair was undertaken for Rs. 6,000, which was charged to revenue. The said sum is to be capitalised for goodwill calculation subject to adjustment of depreciation of 10% p.a. on reducing balance method.
2. The Closing Stock for the year 2013 was overvalued by Rs. 2,400.
3. To cover management cost an annual charge of Rs. 4,800 should be made for purpose of goodwill valuation.

### *Solution*

| *Calculation of Adjusted Profit* | *2012* Rs. | *2013* Rs. | *2014* Rs. | *2015* Rs. |
|---|---|---|---|---|
| Given Profits | 20,200 | 24,800 | 20,000 | 30,000 |
| *Less:* Management Cost | 4,800 | 4,800 | 4,800 | 4,800 |
| *Add:* Capital Expenditure | 15,400 | 20,000 | 15,200 | 25,200 |
| Charged to Revenue | - | - | 6,000 | - |
| | 15,400 | 20,000 | 21,200 | 25,200 |
| *Less:* Unprovided Depreciation | - | - | 200 | 580 |
| | 15,400 | 20,000 | 21,000 | 24,620 |
| *Less:* over valuation of Closing Stock | - | 2,400 | - | - |
| | 15,400 | 17,600 | 21,000 | 24,620 |
| *Add:* over value of opening stock | - | - | 2,400 | - |
| **Adjusted Profits** | **15,400** | **17,600** | **23,400** | **24,620** |

Calculation of weighted average profits:

*(Rs.)*

| *Year* | *Profit* | *Weight* | *Product* |
|---|---|---|---|
| 2012 | 15,400 | 1 | 15,400 |
| 2013 | 17,600 | 2 | 35,200 |
| 2014 | 23,400 | 3 | 70,200 |
| 2015 | 24,620 | 4 | 98,480 |
| **Total** | | **10** | **2,19,280** |

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Weight Average Profit = Rs. $\frac{2,19,280}{10}$ = Rs. 21,928

Goodwill = Rs. 21,928 × 3 = Rs. 65,784

*Notes to Solution*

(i) Depreciation of 2014 = 10% of Rs. 6000 for 4 months
= Rs. 6000 × 10/100 × 4/12 = Rs. 200

(ii) Depreciation of 2015 = 10% of Rs. 6000 – Rs. 200 for one year
= Rs. 5800 × 10/100 + Rs. 580

(iii) Closing Stock of 2014 will become opening stock for the year 2015.

### *2.5.4.2 Super Profits Method*

The basic assumption in the average profits (simple or weighted) method of calculating goodwill is that if a new business is set up, it will not be able to earn any profits during the first few years of its operations. Hence, the person who purchases an existing business has to pay in the form of goodwill a sum equal to the total profits he is likely to receive for the first 'few years'. But it is contended that the buyer's real benefit does not lie in total profits; it is limited to such amounts of profits which are in excess of the normal return on capital employed in similar business. Therefore, it is desirable to value, goodwill on the basis of the excess profits and not the actual profits. The excess of actual profits over the normal profits is termed as super profits.

$$\text{Normal Profit} = \frac{\text{Firm's Capital} \times \text{Normal Rate of Return}}{100}$$

Firms capital includes partners capital and reserves and surplus but excludes fictitious assets and goodwill.

Suppose an existing firm earns Rs. 18,000 on the capital of Rs. 1,50,000 and the normal rate of return is 10%. The Normal profits will work out at Rs. 15,000 (1,50,000 × 10/100). The super profits in this case will be Rs. 3,000 (Rs. 18,000 – 15,000). The goodwill under the super profit method is ascertained by multiplying the super profits by certain number of years' purchase. If, in the above example, it is expected that the benefit of super profits is likely to be available for 5 years in future, the goodwill will be valued at Rs. 15,000 (3,000 × 5). Thus, the steps involved under the method are:

1. Calculate the average profit,
2. Calculate the normal profit on the firm's capital on the basis of the normal rate of return,
3. Calculate the super profits by deducting normal profit from the average profits, and
4. Calculate goodwill by multiplying the super profits by the given number of years' purchase.

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### *Illustration 12*

The books of a business showed that the firm's capital employed on December 31, 2015, Rs. 5,00,000 and the profits for the last five years were: 2011–Rs. 40,000: 2012-Rs. 50,000; 2013-Rs. 55,000; 2014-Rs.70,000 and 2015-Rs. 85,000. You are required to find out the value of goodwill based on 3 years purchase of the super profits of the business, given that the normal rate of return is 10%.

### *Solution*

$$\text{Normal Profits} = \frac{\text{Firm's Capital} \times \text{Normal Rate of Return}}{100}$$

$$= \text{Rs.}\frac{5,00,000 \times 10}{100} = \text{Rs. } 50,000$$

*Average Profits:*

| *Year* | *Profit (Rs.)* |
|---|---|
| 2011 | 40,000 |
| 2012 | 50,000 |
| 2013 | 55,000 |
| 2014 | 70,000 |
| 2015 | 85,000 |
| **Total** | **3,00,000** |

Average Profits = Rs. 3,00,000/5 = Rs. 60,000
Super Profit = Rs. 60,000 – Rs. 50,000 = Rs. 10,000
Goodwill = Rs. 10,000 × 3 = Rs. 30,000

### *Illustration 13*

The capital of the firm of Anu and Benu is Rs. 1,00,000 and the market rate of interest is 15%. Annual salary to partners is Rs. 6,000 each. The profits for the last 3 years were Rs. 30,000; Rs. 36,000 and Rs. 42,000. Goodwill is to be valued at 2 years purchase of the last 3 years' average super profits. Calculate the goodwill of the firm.

### *Solution*

Interest on capital = $1,00,000 \times \frac{15}{100}$ = Rs. 15,000.....(i)

*Add:* partner's salary = Rs. $6,000 \times 2$ = Rs. 12,000.....(ii)

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Normal Profit(i+ii) = Rs. 27,000

Average Profit = Rs. 30,000+Rs.36,000+Rs.42,000 = Rs. $\frac{1,08,000}{3}$

= Rs. 36,000

Super Profit = Average Profit–Normal Profit

= Rs. 36,000–Rs. 27,000

= Rs. 9,000

Goodwill = Super Profit × No of years' purchase

= Rs. 9,000 × 2

= Rs. 18,000

*2.5.4.3 Capitalisation Method*

Under this method the goodwill can be calculated in two ways: (a) by capitalizing the average profits, or (b) by capitalising the super profits.

(a) *Capitalisation of Average Profits:* Under this method, the value of goodwill is ascertained by deducting the actual firm's capital in the business from the capitalized value of the average profits on the basis of normal rate of return. This involves the following steps:

(i) Ascertain the average profits based on the past few years' performance.

(ii) Capitalize the average profits on the basis of the normal rate of return to ascertain the capitalised value of average profits as follows:

**Average Profits × 100/Normal Rate of Return**

(iii) Ascertain the actual firm's capital (net assets) by deducting outside liabilities from the total assets (excluding goodwill and ficticious assets).

**Firms' Capital = Total Assets (excluding goodwill) – Outside Liabilities**

**Where outside Liabilities include both long term and short term Liabilities.**

(iv) Compute the value of goodwill by deducting net assets from the capitalised value of average profits, i.e. (ii) – (iii).

***Illustration 14***

A business has earned average profits of Rs. 1,00,000 during the last few years and the normal rate of return in a similar business is 10%. Ascertain the value of goodwill by capitalisation average profits method, given that the value of net assets of the business is Rs. 8,20,000.

***Solution***

Capitalised Value of Average Profits

Rs. $\frac{1,00,000 \times 100}{10}$ = Rs. 10,00,000

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Goodwill = Capitalised value – Net Assets
= Rs. 10,00,000 – Rs. 8,20,000
= Rs.1,80,000

(b) *Capitalisation of Super Profits:* Goodwill can also be ascertained by capitalising the super profit directly. Under this method there is no need to work out the capitalised value of average profits. It involves the following steps.

(i) Calculate capital of the firm, which is equal to total assets (excluding goodwill and ficticious assets) *minus outside liabilities*.

(ii) Calculate normal profits on capital employed.

(iii) Calculate average profit for past years, as specified.

(ii) Calculate super profits by deducting normal profits from average profits.

(iii) Multiply the super profits by the required rate of return multiplier, that is,

**Goodwill = Super Profits × 100 Normal Rate of Return**

In other words, goodwill is the capitalised value of super profits. The amount of goodwill worked out by this method will be exactly the same as calculated by capitalising the average profits.

For example, using the data given in illustration 14 where the average profits are Rs. 1,00,000 and the normal profits are Rs. 82,000 (10% of Rs. 8,20,000), the super profits worked out as Rs. 18,000 (Rs. 1,00,000 – Rs. 82,000), the goodwill will be calculated as follows.

$$\text{Rs. } 18{,}000 \times \frac{100}{10} = \text{Rs. } 1{,}80{,}000.$$

### *Illustration 15*

1. The goodwill of a firm is to be worked out at three years' purchase of the average profits of the last five years which are as follows:

| *Years* | *Profits (Loss) (Rs.)* |
|---|---|
| 2012 | 10,000 |
| 2013 | 15,000 |
| 2014 | 4,000 |
| 2015 | (5,000) |
| 2016 | 6,000 |

2. The capital of the firm is Rs. 1,00,000 and normal rate of return is 8%, the average profits for last 5 years are Rs. 12,000 and goodwill is to be worked out at 3 years' purchase of super profits,
3. Rama Brothers earn an average profit of Rs. 30,000 with a capital of Rs. 2,00,000. The normal rate of return in the business is 10%. Using capitalisation of super profits method work out the value the goodwill of the firm.

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***Solution***

1. Total Profits = Rs. 10,000 + Rs. 15,000 + Rs. 4,000 + Rs. 6,000 – Rs. 5,000
   = Rs. 30,000
   Average Profits = Rs. 30,000/5 = Rs. 6,000
   Goodwill = Average Profits × 3 = Rs. 6,000 × 3 = Rs.18,000
2. Average Profit = Rs. 12,000
   Normal Profit = Rs.1,00,000 × $\frac{8}{100}$ = Rs. 8,000
   Super Profit=Average Profit – Normal profit = Rs. 12,000 – Rs. 8,000
   = Rs. 4,000
   Goodwill=Super Profit × 3 = Rs. 4,000 × 3 = Rs. 12,000
3. Normal Profit= Rs. 2,00,000 × 10/100 = Rs. 20,000
   Super Profit = Average Profit – Normal Profit = Rs. 30,000 – Rs. 20,000
   = Rs. 10,000
   Goodwill=Super Profit × 100/Normal Rate of Return
   = 10,000 × 100/10 = Rs. 1,00,000.

### *2.5.5 Treatment of Goodwill*

As stated earlier, the incoming partner who acquires his share in the profits of the firm from the existing partners brings in additional amount to compensate them for loss of their share in super profits. It is termed as his share of goodwill (also called premium for goodwill).

#### *2.5.5.1 When the new Partner brings goodwill in cash.*

The amount of premium brought in by the new partner is shared by the existing partners in their ratio of sacrifice. If this amount is paid to the old partners directly (privately) by the new partner, no entry is passed in the books of the firm. But, when the amount is paid through the firm, which is generally the case, the following journal entries are passed:

| | | |
|---|---|---|
| (i) | Bank A/c | Dr. |
| | To Premium for Goodwill A/c | |
| | (Amount brought by new partner as premium) | |
| (ii) | Goodwill A/c | Dr. |
| | To Sacrificing Partners Capital A/c | |
| | (Individually)(Goodwill distributed among the existing partners' in their sacrificing ratio). | |

Alternatively, it is credited to the new partner's capital account and then adjusted in favour of the existing partners in their sacrificing ratio. In that case the journal entries will be as follows:

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| | | |
|---|---|---|
| (i) | Bank A/c | Dr. |
| | To New Partner's Capital A/c | |
| | (Amount brought by new partner for his share of goodwill). | |
| (ii) | New Partner's Capital A/c | Dr. |
| | To Sacrificing Partner's Capital A/c's (Individually) | |
| | (Goodwill brought by new partners distributed among the existing partners in their sacrificing ratio) | |

If the partners decide that the amount of premium for goodwill credited to their capital accounts should be retained in business, an additional entry is not passed. If, however, they decide to withdraw their amounts, (in full or in part) the following additional entry will be passed:

| | |
|---|---|
| Existing Partner's Capital A/c (Individually) | Dr. |
| To Bank A/c | |
| (The amount of goodwill withdrawn by the existing partners) | |

### *Illustration 16*

Sunil and Dalip are partners in a firm sharing profits and losses in the ratio of 5:3. Sachin is admitted in the firm for 1/5$^{th}$ share of profits. He brings in Rs. 20,000 as capital and Rs. 4,000 as his share of goodwill by cheque. Give the necessary journal entries,

(a) When partners decided to retain goodwill in business.
(b) When the amount of goodwill is fully withdrawn.
(c) When 50% of the amount of goodwill is withdrawn.

### *Solution*

(a) When the amount of goodwill credited to existing partners is retained in business.

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**Books of Sunil and Dalip**
**Journal**

| Date | Particulars | | L.F. | Debit (Rs.) | Credit (Rs.) |
|---|---|---|---|---|---|
| (i) | Bank A/c | Dr. | | 24,000 | |
| | To Sachin's Capital A/c | | | | 20,000 |
| | To Premium for Goodwill A/c | | | | 4,000 |
| | (The amount brought in by Sachin as Capital and Goodwill) | | | | |
| (ii) | Premium for Goodwill A/c | Dr. | | 4,000 | |
| | To Sunil's Capital A/c | | | | 2,500 |
| | To Dalip's Capital A/c | | | | 1,500 |
| | (Goodwill transferred to Sunil and Dalip in the ratio of 5:3) | | | | |

Alternatively,

| | | | | |
|---|---|---|---|---|
| (i) | Cash A/c | Dr. | 24,000 | |
| | To Sachin's Capital A/c | | | 24,000 |
| (ii) | Sachin's Capital A/c | Dr | 4,000 | |
| | To Sunil's Capital A/c | | | 2,500 |
| | To Dalip's Capital A/c | | | 1,500 |

*Note:* It assumed that the sacrificing ratio is the same as old profit sharing ratio.

(b) When the amount of goodwill credited to existing partners is fully withdrawn.

**Journal**

| Date | Particulars | | L.F. | Debit (Rs.) | Credit (Rs.) |
|---|---|---|---|---|---|
| 1. | Same as in (a) above | | | | |
| 2. | Same as in (a) above, | | | | |
| 3. | Sunil's Capital A/c | Dr. | | 2,500 | |
| | Dalip's Capital A/c | Dr. | | 1,500 | |
| | To Bank A/c | | | | 4,000 |
| | (Cash withdrawn by Sunil and Dalip equal to their share of goodwill) | | | | |

(c) When 50% of the amount of goodwill credited to existing partners is withdrawn.

**Journal**

| Date | Particulars | | L.F. | Debit (Rs.) | Credit (Rs.) |
|---|---|---|---|---|---|
| 1. | Same as in (a) above, | | | | |
| 2. | Same as in (a) above | | | | |
| 3. | Sunil's Capital A/c | Dr. | | 1,250 | |
| | Dalip's Capital A/c | Dr. | | 750 | |
| | To Cash A/c | | | | 2,000 |
| | (Cash withdrawn for 50% of their share of goodwill) | | | | |

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### *Illustration 17*

Vijay and Sanjay are partners in a firm sharing profits and losses in the ratio of 3:2. They admitted Ajay into partnership with 1/4 share in profits. Ajay brings in Rs. 30,000 for capital and the requisite amount of premium in cash. The goodwill of the firm is valued at Rs. 20,000. The new profit sharing ratio is 2:1:1. Vijay and Sanjay withdraw their share of goodwill. Give necessary journal entries.

### *Solution*

(a) Ajay will bring Rs. 5,000 (1/4 of Rs. 20,000) as his share of goodwill (premium)

(b) Sacrificing Ratio is 2:3 as calculated below:

For Vijay, old ratio is 3/5 and the new ratio is 2/4, hence, his sacrificing ratio is

$$= \frac{3}{5} - \frac{2}{4} = \frac{12-10}{20} = \frac{2}{20}$$

For Sanjay, old ratio is 2/5 and the new ratio is 1/4, hence, his sacrificing ratio is $= \frac{2}{5} - \frac{1}{4} = \frac{8-5}{20} = \frac{3}{20}$

**Books of Vijay and Sanjay**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit (Rs.)* | *Credit (Rs.)* |
|---|---|---|---|---|---|
| 1. | Bank A/c | Dr. | | 35,000 | |
| | To Ajay's Capital A/c | | | | 30,000 |
| | To Premium for Goodwill A/c | | | | 5,000 |
| | (The amount of capital and goodwill brought by Ajay) | | | | |
| 2. | Premium for Goodwill A/c | Dr. | | 5,000 | |
| | To Vijay's Capital A/c | | | | 2,000 |
| | To Sanjay's Capital A/c | | | | 3,000 |
| | (the amount of goodwill brought by Ajay shared by Vijay and Sanjay in their sacrificing ratio) | | | | |
| 3. | Vijay's Capital A/c | Dr. | | 2,000 | |
| | Sanjay's Capital A/c | Dr. | | 3,000 | |
| | To Bank A/c | | | | 5,000 |
| | (Cash withdrawn by Vijay and Sanjay for their share of goodwill) | | | | |

*Note:* Alternatively, journal entries (1) and (2) could be as given on the next page:

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**Books of Vijay and Sanjay**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit (Rs.)* | *Credit (Rs.)* |
|---|---|---|---|---|---|
| 1. | Bank A/c | Dr. | | 35,000 | |
| | To Ajay's Capital A/c | | | | 35,000 |
| | (Ajay brought in Rs. 30,000 for capital and Rs. 5,000 as goodwill) | | | | |
| 2. | Ajay's Capital A/c | Dr. | | 5,000 | |
| | To Vijay's Capital A/c | | | | 2,000 |
| | To Sanjay's Capital A/c | | | | 3,000 |
| | (Amount of goodwill brought in by Ajay shared by Vijay and Sanjay in their sacrificing in the ratio of 2:3) | | | | |

*When goodwill already exists in books:* Goodwill, if existing in the books of the firm, it is written off at the time of admission of a partner.

For example, in Illustration 17, the goodwill of the firm is valued at Rs. 20,000 and Ajay who is admitted to 1/4 share in its profits, brings in Rs. 5,000 as his share of goodwill. Suppose, goodwill already appeared in books at Rs. 10,000 the following additional journal entry shall be passed for writing off the existing amount of goodwill.

| *Date* | *Particulars* | | *L.F.* | *Debit (Rs.)* | *Credit (Rs.)* |
|---|---|---|---|---|---|
| | Vijay's Capital A/c | Dr. | | 6,000 | |
| | Sanjay's Capital A/c | Dr. | | 4,000 | |
| | To Goodwill A/c | | | | 10,000 |
| | (Goodwill written-off in old ratio) | | | | |

### *Illustration 18*

Srikant and Raman are partners in a firm sharing profits and losses in the ratio of 3:2. They admit Venkat into partnership with 1/3 share in the profits. Venkat brings in Rs. 30,000 as his capital. He also brings in the necessary amount for his share of goodwill. On the date of admission, the goodwill is valued at Rs. 24,000 and the goodwill account appears in the books at Rs. 12,000. Venkat brings in the necessary amount for his share of goodwill and agrees that the existing goodwill account be written off. Record the necessary journal entries in the books of the firm.

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***Solution***

**Books of Srikant and Raman**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit (Rs.)* | *Credit (Rs.)* |
|---|---|---|---|---|---|
| 1. | Bank A/c | Dr. | | 38,000 | |
| | To Venkat's Capital A/c | | | | 30,000 |
| | To Premium for Goodwill A/c | | | | 8,000 |
| | (Amount brought in by Venkat as his capital and his share of goodwill) | | | | |
| 2. | Premium for Goodwill A/c | Dr. | | 8,000 | |
| | To Srikant's Capital A/c | | | | 4,800 |
| | To Raman's Capital A/c | | | | 3,200 |
| | (Goodwill brought in by Venkat shared by old partners in their ratio of sacrifice) | | | | |
| 3. | Srikant's Capital A/c | Dr. | | 7,200 | |
| | Raman's Capital A/c | Dr. | | 4,800 | |
| | To Goodwill A/c | | | | 12,000 |
| | (Goodwill already appearing in books written-off in the old ratio) | | | | |

*Note:* Since nothing is given about the ratio in which the new partner acquires his share of profit from Srikant and Raman, it is implied that they sacrifice their share of profit in favour of Venkat in the old ratio i.e., 3:2.

**When the new partner does not bring goodwill in cash, partly or fully**

Goodwill not brought by the new partner will be debited to current account of new partner while sacrificing partners' capital accounts will be credited for their respective shares.

When the new partner does not bring the share of goodwill, there exists two possibilities :

(a) Goodwill does not exist in the books; and.
(b) Goodwill exists in the books.

*Goodwill does not exist in the books*

When goodwill does not exist in the books, sacrificing partners are credited with their share of goodwill and new partner is debited by the amount of goodwill not brought by him. The journal entry in this case is :

Incoming (New) Partners Current A/c Dr.
To Sacrificing Partners Capital A/c (individually)
(Account of goodwill not brought in by new partner)

Sometimes the new partner brings part of premium for goodwill in cash. In such a situation, new partners current account will be debited by the amount not brought by new partner.

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For example, for the share of goodwill of Rs. 50,000 the new partner brings Rs. 20,000 only. In this situation the journal entry will be :

| | | | | |
|---|---|---|---|---|
| (i) | Bank A/c<br>To Premium for Goodwill A/c<br>(Premium for goodwill brought by the new partner) | Dr. | 20,000 | 20,000 |
| (ii) | Premium for Goodwill A/c<br>Incoming partners current A/c<br>To sacrificing partners capital A/c's (individually)<br>(Goodwill credited in sacrificing ratio) | Dr.<br>Dr. | 20,000<br>30,000 | <br>50,000 |

***Illustration 19***

Ahuja and Barua are partners in a firm sharing profits and losses in the ratio of 3:2. They decide to admit Chaudhary into partnership for 1/5 share of profits, which he acquires equally from Ahuja and Barua. Goodwill is valued at Rs. 30,000. Chaudhary brings in Rs. 16,000 as his capital but is not in a position to bring any amount for goodwill. No goodwill account exists in books of the firm. Goodwill account is to be raised at full value. Record the necessary journal entries.

***Solution***

**Book of Ahuja and Barua**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit (Rs.)* | *Credit (Rs.)* |
|---|---|---|---|---|---|
| 1. | Bank A/c<br>To Chaudhary's Capital A/c<br>(Amount brought for capital) | Dr. | | 16,000 | <br>16,000 |
| 2. | Chaudhary's Current A/c<br>To Ahuja's Capital A/c<br>To Barua's Capital A/c<br>(Goodwill credited to sacrificing partner's accounts) | Dr. | | 30,000 | <br>18,000<br>12,000 |

*When goodwill exists in the books :*

Goodwill appearing in the books will be written-off by debiting old partners 'capital accounts in their old profit sharing ratio. Thereafter new value of goodwill will be given effect by crediting sacrificing partners' capital accounts and debiting new partners' current account.

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The journal entries will be as under :-

(i) When the value of goodwill appears in the books and is written off

Partners capital A/c (old) Dr. (In profit sharing ratio)
To Goodwill A/c
(Goodwill appearing in the books written-off)

(ii) For new value of goodwill :-

Incoming partners' current A/c. Dr.
To Sacrificing partners capital A/c. [In sacrificing ratio)
(individually)

***Illustration 20***

Ram and Rahim are partners in a firm sharing profits and losses in the ratio of 3:2. Rahul is admitted into partnership for 1/3 share in profits. He brings in Rs. 10,000 as capital, but is not in a position to bring any amount for his share of goodwill which has been valued at Rs. 30,000. Give necessary journal entries under each of the following situations:

(a) When there is no goodwill appearing in the books of the firm; and
(b) When the goodwill appears at Rs 15,000 in the books of the firm.

***Solution***

*(a) When no goodwill appears in the books*

**Books of Ram and Rahim**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Bank A/c Dr. | | 10,000 | |
| | To Rahul's Capital A/c | | | 10,000 |
| | (Amount brought by Rahul as Capital) | | | |
| | Rahul's Current A/c Dr. | | 30,000 | |
| | To Ram's Capital A/c | | | 18,000 |
| | To Rahim's Capital A/c | | | 12,000 |
| | (Goodwill not brought by Rahul debited to his current account and credited to old partners in sacrificing ratio) | | | |

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*(b) When goodwill appears in the books at Rs. 15,000*

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Bank A/c Dr.<br>To Rahul's Capital A/c<br>(Amount brought by Rahul as Capital) | | 10,000 | 10,000 |
| | Rahul's Current A/c Dr.<br>To Ram's Capital A/c<br>To Rahim's Capital A/c<br>(Goodwill not brought by Rahul debited to his current account and credited to old partners in sacrificing ratio) | | 15,000 | <br>9,000<br>6,000 |
| | Ram's Capital A/c Dr.<br>Rahim's Capital A/c<br>To Goodwill A/c<br>(Goodwill affeacing in the books written - off in old profit sharing ratio) | | 9,000<br>6,000 | <br><br>15,000 |

**Applicability of Accounting Standard 26: Intangible Assets**

The Standard comes into effect in respect of expenditure incurred on intangible items during the accounting periods commencing on or after April 1, 2003. As per the Standard, Intangible Asset under AS 26 is defined as an identifiable, non monetary, without physical existence and held for use in the production or supply of goods or services for rental to others or for administrative purposes.

Significant requirements of AS 26 w.r.t Intangible Assets:

1. Intangible asset should be recognised by fulfilling the criteria as recognised under AS 26.
2. If an in asset does not satisfy recognition criteria, it should be expensed.
3. Internally generated goodwill should not be recognised as an asset.
4. Internally generated brands, mastheads, and publishing titles and other similar in substance should not be recognised as intangible assets.
5. Internally generated assets other than the goodwill, brands, mastheads, and publishing titles may be recognised provided they satisfy recognition criteria as prescribed by AS 26.
6. Intangible assets should be written off as early as possible but not exceeding its estimated life, which normally should not be beyond 10 years.

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Accounting Standard 26 implies that:

(a) Purchased goodwill may be accounted for in the books and shown as an asset, where it is accounted for in the books and shown as assets, it should be written off as early as possible, but where it is to be written- off in more than one accounting year, it should be written off in a period not exceeding 10 years. In line with what is prescribed by the Accounting Standard, goodwill appearing in the balance sheet in written off at the time of firm's reconstitution.

(b) Self - generated goodwill is not accounted for in the books and shown as an asset. Thus if self generated goodwill be debited to goodwill account it should be written - off in the same financial year and should not be shown as an asset in the balance sheet. Alternatively value of goodwill may be adjusted by deducting new partners' current account and crediting in their sacrificing ratio. The effect under both the methods is same.

**Test your Understanding – II**

Choose the correct alternative –

1. At the time of admission of a new partner, general reserve appearing in the old balance sheet is transferred to:
   (a) all partner's capital account
   (b) new partner's capital account
   (c) old partner's capital account
   (d) none of the above.
2. Asha and Nisha are partner's sharing profit in the ratio of 2:1. Asha's son Ashish was admitted for 1/4 share of which 1/8 was gifted by Asha to her son. The remaining was contributed by Nisha. Goodwill of the firm in valued at Rs. 40,000. How much of the goodwill will be credited to the old partner's capital account.
   (a) Rs. 2,500 each
   (b) Rs. 5,000 each
   (c) Rs. 20,000 each
   (d) None of the above.
3. A, B and C are partner's in a firm. If D is admitted as a new partner:
   (a) old firm is dissolved
   (b) old firm and old partnership is dissolved
   (c) old partnership is reconstituted
   (d) None of the above.

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4. On the admission of a new partner increase in the value of assets is debited to:
   (a) Profit and Loss Adjustment account
   (b) Assets account
   (c) Old partner's capital account
   (d) None of the above.
5. At the time of admission of a partner, undistributed profits appearing in the balance sheet of the old firm is transferred to the capital account of:
   (a) old partners in old profit sharing ratio
   (b) old partners in new profit sharing ratio
   (c) all the partner in the new profit sharing ratio.

*2.5.5.2 Hidden Goodwill*

Sometimes the value of goodwill is not given at the time of admission of a new partner. In such a situation it has to be inferred from the arrangement of the capital and profit sharing ratio. Suppose, A and B are partners sharing profits equally with capitals of Rs. 45,000 each. They admitted C as a new partner for one-third share in the profit. C brings in Rs. 60,000 as his capital. Based on the amount brought in by C and his share in profit, the total capital of the newly constituted firm works out to be Rs.1,80,000 (Rs. 60,000 × 3). But the actual total capital of A, B and C works out as Rs. 1,50,000 (Rs. 45,000 + Rs. 45,000 + Rs. 60,000). Hence, it can be inferred that the difference is on account of goodwill i.e., Rs. 30,000 (Rs. 1,80,000 – Rs. 1,50,000). Which is to be shared equally (old ratio) by A and B. This shall raise their capital accounts to Rs. 60,000 each and total capital of the firm to Rs. 1,80,000. In this, C's Current account will be debited by Rs. 10,000 (his share of goodwill) and A and B's Capital accounts credited by Rs. 5,000 each.

***Illustration 21***

Hem and Nem are partners in a firm sharing profits in the ratio of 3:2. Their capitals were Rs. 80,000 and Rs. 50,000 respectively. They admitted Sam on Jan. 1, 2017 as a new partner for 1/5 share in the future profits. Sam brought Rs. 60,000 as his capital. Calculate the value of goodwill of the firm and record necessary journal entries on Sam's admission, if:

(a) Sam brings his share of goodwill
(b) Sam does not bring his share of goodwill

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***Solution***

*(a) Sam brings his share of goodwill*

**Books of Hem, Nem and Sam**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| 1. | Bank A/c Dr. | | 82,000 | |
| | To Sam's Capital A/c | | | 60,000 |
| | To Premium for Goodwill A/c | | | 22,000 |
| | (Amoun brought by Sam as Capital and Premium for goodwill) | | | |
| 2. | Premium for goodwill A/c Dr. | | 22,000 | |
| | To Hem's Capital A/c | | | 13,200 |
| | To Nem's Capital A/c | | | 8,800 |
| | (Premium for goodwill credited to sacrificing partners' capital account in their sacrificing ratio) | | | |

*(b) Sam does not bring his share of goodwill*

**Books of Hem, Nem and Sam**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| 1. | Bank A/c Dr. | | 60,000 | |
| | To Sam's Capital A/c | | | 60,000 |
| | (Cash brought by Sam for his capital) | | | |
| 2. | Sam's Current A/c Dr. | | 22,000 | |
| | To Hem's Capital A/c | | | 13,200 |
| | To Nem's Capital A/c | | | 8,800 |

*Working Notes :*

Value of Firm's goodwill
Sam's Capital = Rs. 60,000

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| | | |
|---|---|---|
| Sam's Share | = | 1/5 |
| Total capital of Firm | = | Rs. 60,000 × 5 = Rs. 3,00,000 |
| Hem + Nem + Sam | = | Rs. 80,000 + Rs. 50,000 + Rs. 60,000 |
| | = | Rs. 1,90,000 |
| Goodwill of the firm | = | Rs. 3,00,000 - Rs. 1,90,000 = Rs. 1,10,000 |
| Sam's Share | = | Rs. 1,10,000 × 1/5 = Rs. 22,000 |

**Do It Yourself**

1. A firm's profits for the last three years are Rs. 5,00,000; Rs. 4,00,000 and Rs. 6,00,000. Calculate value of firm's goodwill on the basis of four years' purchase of the average profits for the last three years.
2. A firm's profits during 2013, 2014, 2015 and 2016 were Rs. 16,000; Rs. 20,000; Rs. 24,000 and Rs. 32,000 respectively. The firm has capital investment of Rs. 1,00,000. A fair rate of return on investment is 18% p.a. Compute goodwill based on three years' purchase of the average super profits for the last four years.
3. Based on the data given in the above question, calculate goodwill by capitalisation of super profits method. Will the amount of goodwill be different if it is computed by capitalisation of average profits? Confirm your answer by numerical verification.
4. Giri and Shanta are partners in a firm sharing profits equally. They admit Kachroo into partnership who, in addition to capital, brings Rs. 20,000 as goodwill for 1/5th share of profits in the firm. What shall be journal entries if:
   (a) no goodwill appears in the books of the firm.
   (b) goodwill appears in the books of the firm at Rs. 40,000.

## 2.6 Adjustment for Accumulated Profits and Losses

Sometimes a firm may have accumulated profits not yet transferred to capital accounts of the partners. These are usually in the form of general reserve, reserve and/or Profit and Loss Account. The new partner is not entitled to have any share in such accumulated profits. These are distributed among the partners by transferring it to their capital current accounts in old profit sharing ratio. Similarly, if there are some accumulated losses in the form of a debit balance of profit and loss account and/or deferred revenue expenditure appearing in the balance sheet of the firm.

It should be transferred to the old partners' capital accounts (see Illustration 22).

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***Illustration 22***

Rajinder and Surinder are partners in a firm sharing profits in the ratio of 4:1. On April 15, 2017 they admit Narender as a new partner. On that date there was a balance of Rs. 20,000 in general reserve and a debit balance of Rs. 10,000 in the profit and loss account of the firm. Pass necessary journal entries regarding adjustment of a accumulate a profit or loss.

***Solution***

**Books of Rajinder,Surinder and Narender**
**Journal**

| *Date 2017* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| Apr.15 | General Reserve A/c | Dr. | | 20,000 | |
| | To Rajinder's capital A/c | | | | 16,000 |
| | To Surender's capital A/c | | | | 4,000 |
| | (General Reserve balance transferred to the capital account of Rajinder and Surinder on Narender's admission) | | | | |
| | Rajinder's Capital A/c | Dr. | | 8,000 | |
| | Surender's Capital A/c | Dr. | | 2,000 | |
| | To Profit and Loss A/c | | | | 10,000 |
| | (Debit balance of Profit and Loss A/c transferred to old partners' capital accounts) | | | | |

## 2.7 Revaluation of Assets and Reassessment of Liabilities

At the time of admission of a new partner, it is always desirable to ascertain whether the assets of the firm are shown in books at their current values. In case the assets are overstated or understated, these are revalued. Similarly, a reassessment of the liabilities is also done so that these are brought in the books at their correct values. At times there may also be some unrecorded assets and liabilities of the firm. These also have to be brought into the books of the firm. For this purpose the firm has to prepare the Revaluation Account. The gain or loss on revaluation of each asset and liability is transferred to this account and finally its balance is transferred to the capital accounts of the old partners in their old profit sharing ratio. In other words, the revaluation

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account is credited with increase in the value of each asset and decrease in its liabilities because it is a gain and is debited with decrease in the value of assets and increase in its liabilities is debited to revaluation account because it is a loss. Similarly unrecorded assets are credited and unrecorded liabilities are debited to the revaluation account. If the revaluation account finally shows a credit balance then it indicates net gain and if there is a debit balance then it indicates net loss. Which will be transferred to the capital accounts of the old partners in old ratio.

The journal entries recorded for revaluation of assets and reassessment of liabilities are as follows:

(i) For increase in the value of an asset

| | | | |
|---|---|---|---|
| | Asset A/c | Dr. | |
| | To Revaluation A/c | | (Gain) |

(ii) For reduction in the value of an asset

| | | | |
|---|---|---|---|
| | Revaluation A/c | Dr. | |
| | To Asset A/c | | (Loss) |

(iii) For appreciation in the amount of a liability

| | | | |
|---|---|---|---|
| | Revaluation A/c | Dr. | |
| | To Liability A/c | | (Loss) |

(iv) For reduction in the amount of a liability

| | | | |
|---|---|---|---|
| | Liability A/c | Dr. | |
| | To Revaluation A/c | | (Gain) |

(v) For an unrecorded asset

| | | | |
|---|---|---|---|
| | Asset A/c | Dr. | |
| | To Revaluation A/c | | (Gain) |

(vi) For an unrecorded liability

| | | | |
|---|---|---|---|
| | Revaluation A/c | Dr. | |
| | To Liability A/c | | (Loss) |

(vii) For transfer of gain on Revaluation if credit balance

| | | | |
|---|---|---|---|
| | Revaluation A/c | Dr. | |
| | To Old Partners Capital A/cs (individually) | | (Old ratio) |

(viii) For transferring loss on revaluation

| | | | |
|---|---|---|---|
| | Old partner's Capital A/cs (Individually) | Dr. | (Old ratio) |
| | To Revaluation A/c | | |

*Note:* Entries (i), (ii), (iii) and (iv) are recorded only with the amount increase and decrease in the value of assets and liabilities.

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### *Illustration 23*

Following is Balance Sheet of A and B who share profits in the ratio of 3:2.

**Balance Sheet of A and B as on April 1, 2015**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry creditors | | 20,000 | Cash in hand | 3,000 |
| Captials | | | Debtors | 12,000 |
| A | 30,000 | | Stock | 15,000 |
| B | 20,000 | 50,000 | Furniture | 10,000 |
| | | | Plant and Machinery | 30,000 |
| | | **70,000** | | **70,000** |

On that date C is admitted into the partnership on the following terms:

1. C is to bring in Rs. 15,000 as capital and Rs. 5,000 as premium for goodwill for $\frac{1}{6}$ share.
2. The value of stock is reduced by 10% while plant and machinery is appreciated by 10%.
3. Furniture is revalued at Rs. 9,000.
4. A provision for doubtful debts is to be created on sundry debtors at 5% and Rs. 200 is to be provided for an electricity bill.
5. Investment worth Rs. 1,000 (not mentioned in the balance sheet) is to be taken into account.
6. A creditor of Rs. 100 is not likely to claim his money and is to be written off.

Record journal entries and prepare revaluation account and capital account of partners.

### *Solution*

**Books of A, B and C**
**Journal**

| *Date 2015* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| April 01 | Bank A/c | Dr. | | 20,000 | |
| | To C's capital account | | | | 15,000 |
| | To Goodwill A/c | | | | 5,000 |
| | (Cash brought in by C as capital and goodwill/premium) | | | | |

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| | | | | | |
|---|---|---|---|---|---|
| 02 | Goodwill A/c | Dr. | | 5,000 | |
| | To A's Capital A/c | | | | 3,000 |
| | To B's Capital A/c | | | | 2,000 |
| | (Premium divided between A and B in sacrificing ratio 3:2) | | | | |
| 03 | Revaluation A/c | Dr. | | 3,100 | |
| | To Stock A/c | | | | 1,500 |
| | To Furniture | | | | 1,000 |
| | To Provision for Doubtful Debt A/c | | | | 600 |
| | (Revaluation in the value of assets on revaluation) | | | | |
| 04 | Plant and Machinery A/c | Dr. | | 3,000 | |
| | Investment A/c | | | 1,000 | |
| | To Revaluation A/c | | | | 4,000 |
| | (Increase in the value of assets on revaluation) | | | | |
| 05 | Revaluation A/c | Dr. | | 200 | |
| | To Outstanding Electricity A/c | | | | 200 |
| | (Amount provided for outstanding electricity bill) | | | | |
| 06 | Sundry Creditors A/c | Dr. | | 100 | |
| | To Revaluation A/c | | | | 100 |
| | (Amount not likely to be claimed by the creditors written off) | | | | |
| 07 | Revaluation A/c | Dr. | | 800 | |
| | To A's Capital A/c | | | | 480 |
| | To B's Capital A/c | | | | 320 |
| | (Profit on revaluation of assets and re-assessment of liabilities transferred to A and B in old profit sharing ratio) | | | | |

**Revaluation Account**

*Dr.* *Cr.*

| *Particulars* | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|
| Stock | 1,500 | Plant and Machinery | 3,000 |
| Furniture | 1,000 | Investments | 1,000 |
| Provision for Doubtful | 600 | Sundry Creditors | 100 |
| Outstanding Electricity | 200 | | |
| Profit on Revaluation transferred to: | | | |
| A's Capital | 480 | | |
| B's Capital | 320 | | |
| | **4,100** | | **4,100** |

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**Partner's Capital Accounts**

*Dr.* *Cr.*

| *Date 2015* | *Particulars* | *A (Rs.)* | *B (Rs.)* | *C (Rs.)* | *Date 2015* | *Particulars* | *A (Rs.)* | *B (Rs.)* | *C (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| Apr.01 | Balance c/d | 33,480 | 22,320 | 15,000 | Apr.1 | Balance b/d | 30,000 | 20,000 | |
| | | | | | | Bank | | | 15,000 |
| | | | | | | Goodwill | 3,000 | 2,000 | |
| | | | | | | Revaluation (Profit) | 480 | 320 | |
| | | **33,480** | **22,320** | **15,000** | | | **33,480** | **22,320** | **15,000** |

### *Illustration 24*

Given below is the Balance Sheet of A and B, who are carrying on partnership business as on March 31,2017. A and B share profits in the ratio of 2:1.

**Balance Sheet of A and B as at March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount ( Rs.)* |
|---|---|---|---|---|
| Bills Payable | | 10,000 | Cash in hand | 10,000 |
| Sundry creditors | | 58,000 | Cast at bank | 40,000 |
| Outstanding expenses | | 2,000 | Sundry debtors | 60,000 |
| Capitals | | | Stock | 40,000 |
| A | 1,80,000 | | Plant and machinery | 1,00,000 |
| B | 1,50,000 | 3,30,000 | Building | 1,50,000 |
| | | **4,00,000** | | **4,00,000** |

C is admitted as a partner on the date of the balance sheet on the following terms:

1. C will bring in Rs 1,00,000 as his capital and Rs 60,000 as his share of goodwill for 1/4 share in profits.
2. Plant is to be appreciated to Rs 1,20,000 and the value of buildings is to be appreciated by 10%.
3. Stock is found overvalued by Rs 4,000.
4. A provision for doubtful debts is to be created at 5% of debtors.
5. Creditors were unrecorded to the extend of Rs 1,000.

Record revaluation Account, partners' capital accounts, and the Balance Sheet of the constituted firm after admission of the new partner.

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***Solution***

**Books of A and B**
**Revaluation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Stock in hand | | 4,000 | Plant and machinery | 20,000 |
| Provision for doubtful debts | | 3,000 | Buildings | 15,000 |
| Creditors | | | | |
| profit on revaluation transferred to: | | 1,000 | | |
| A's Capital | 18,000 | | | |
| B's Capital | 9,000 | 27,000 | | |
| | | **35,000** | | **35,000** |

**Partners' Capital Accounts**

*Dr.* *Cr.*

| Date 2017 | Particulars | A (Rs.) | B (Rs.) | C (Rs.) | Date 2017 | Particulars | A (Rs.) | B (Rs.) | C (Rs.) |
|---|---|---|---|---|---|---|---|---|---|
| March 31 | Balance c/d | 2,38,000 | 1,79,000 | 1,00,000 | March 31 | Balance b/d | 1,80,000 | 1,50,000 | |
| | | | | | | Bank | | | 1,00,000 |
| | | | | | | Goodwill | 40,000 | 20,000 | |
| | | | | | | Revaluation | 18,000 | 9,000 | |
| | | **2,38,000** | **1,79,000** | **1,00,000** | | | **2,38,000** | **1,79,000** | **1,00,000** |

**Balance Sheet of A, B and C as on April 01, 2016**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Bills Payable | | 10,000 | Cash in hand | | 10,000 |
| Sundry Creditors | | 59,000 | Cash at bank | | 2,00,000 |
| Outstanding Expenses | | 2,000 | Sundry Debtors | 60,000 | |
| Capitals | | | Less: Provision for doubtful debts | 3,000 | 57,000 |
| A | 2,38,000 | | Stock | | 36,000 |
| B | 1,79,000 | | Plant and Machinery | | 1,20,000 |
| C | 1,00,000 | 5,17,000 | Buildings | | 1,65,000 |
| | | **5,88,000** | | | **5,88,000** |

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**Do It Yourself**

1. Aslam, Jackab, Hari are equal partners with capitals of Rs. 1,500, Rs. 1,750 and Rs. 2,000 respectively. They agree to admit Satnam into equal partnership upon payment in cash of Rs. 1,500 for one-fourth share of the goodwill and Rs. 1,800 as his capital, both sums to remain in the business. The liabilities of the old firm amount Rs. 3,000 and the assets, apart from cash, consist of Motors Rs. 1,200, Furniture Rs. 400, Stock Rs. 2,650, Debtors of Rs. 3,780. The Motors and Furniture were revalued at Rs. 950 and Rs. 380 respectively, and the depreciation written-off. Ascertain cash in hand and prepare the balance sheet of the firm after Satnam's admission.
2. Benu and Sunil are partners sharing profits in the ratio of 3:2 on April 1, 2017. Ina was admitted for 1/4 share who paid Rs. 2,00,000 as capital and Rs. 1,00,000 for premium for goodwill in cash. At the time of admission, general reserve amounting to Rs. 1,20,000 and profit and loss account amounting to Rs. 60,000 appeared on the liability side of the balance sheet.
   Required: Record necessary journal entries to record the above transactions.
3. Ashoo and Rahul are partners sharing profits in the ratio of 5:3. Gaurav was admitted for 1/5 share and was asked to contribute proportionate capital and Rs. 4,000 for premium (goodwill). The Capitals of Ashoo and Rahul, after all adjustments relating to revaluation, goodwill etc., worked out to be Rs. 45,000 and Rs. 35,000 respectively.
   Required: Calculate New Profit sharing ratio, capital to be brought in by Gaurav and record necessary journal entries for the same.

## 2.8 Adjustment of Capitals

Sometimes, at the time of admission, the partners agree that their capitals should also be adjusted so as to be proportionate to their profit sharing ratio. In such a situation, if the capital of the new partner is given, the same can be used as a base for calculating the new capitals of the old partners. The capitals thus ascertained should be compared with their old capitals after all adjustments relating to goodwill reserves and revaluation of assets and liabilities, etc. have been made; and then the partner whose capital falls short, will bring in the necessary amount to cover the shortage and the partner who has a surplus, will withdraw the excess amount of capital. (See Illustration 25)

### *Illustration 25*

A and B are partners sharing profits in the ratio of 2:1. C is admitted into the firm for 1/4 share of profits. C brings in Rs. 20,000 in respect of his capital. The capitals of old partners A and B, after all adjustments relating to goodwill, revaluation of assets and liabilities, etc., are Rs. 45,000 and Rs. 15,000 respectively. It is agreed that partners' capitals should be according to the new profit sharing ratio.

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Determine the new capitals of A and B and record the necessary journal entries assuming that the partner whose capital falls short, brings in the amount of deficiency and the partner who has an excess, withdraws the excess amount.

***Solution***

1. Calculation of new profit sharing ratio: Assuming the new partner C quires his share from A and B in their old profit sharing ratio, i.e 2:1.

Total Share = 1

C's Share $= \frac{1}{4}$

Remaining Shares $= 1 - \frac{1}{4} = \frac{3}{4}$

A's New Share $= \frac{3}{4} \times \frac{2}{3} = \frac{6}{12}$

B's New Share $= \frac{3}{4} \times \frac{1}{3} = \frac{3}{12}$

C's New Share $= \frac{1}{4} \times \frac{3}{3} = \frac{3}{12}$

Thus, new profit sharing ratio between A,B and C is 6:3:3 or 2:1:1.

2. Required Capital of A and B

C's capital (who has 1/4 share in profits) is Rs. 20,000. B's new share in profits 1/4. Hence his capital will also be Rs. 20,000. A's new share is 2/4 which is double of C's share. Hence his capital will be Rs. 40,000.

Alternatively, based on C's capital, the total capital of the firm works out at Rs. 80,000 (4/1 × Rs.20,000). Hence, based on their share in profits, the capital of A and B will be:

A's capital $= \frac{2}{4}$ of 80,000 = Rs. 40,000

B's capital $= \frac{1}{4}$ of 80,000 = Rs. 20,000

The capital of A and B after all adjustments have been made, are Rs. 45,000 and Rs. 15,000 respectively. Hence, A will withdraw Rs. 5,000 (Rs. 45,000–Rs.40,000) from the firm whereas B will contribute additional amount of Rs. 5,000 (Rs. 20,000–Rs.15,000). The journal entries will be :

| *Date* | *Particulars* | *L.F.* | | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| | A's Capital A/c<br>To Cash A/c<br>(Excess capital withdrawn by A) | Dr. | | 5,000 | 5,000 |

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| | | | | | |
|---|---|---|---|---|---|
| | Cash A/c<br>To B's Capital A/c<br>(Deficiency made good by additional amount brought in by B) | Dr. | | 5,000 | 5,000 |

Sometimes, the total capital of the firm may clearly be specified and it is agreed that the capital of each partner should be proportionate to his share in profits. In such a situation each partner's capital (including the new partner's capital to be brought by him) is calculated on the basis of his share in profits. By bringing in additional amount or withdrawal of excess amount, the final capital of each partner can be brought up to the required level.

It may be noted that subject to agreement among the partners, surplus or deficiency in each old partners' capital accounts can also be taken care of simply by transfer to their respective current accounts. (See Illustration 26)

### *Illustration 26*

A, B and C are partners in a firm sharing profits the ratio of 3:2:1. D is admitted into the firm for 1/4 share in profits, which he gets as 1/8 from A and 1/8 from B. The total capital of the firm is agreed upon as Rs. 1,20,000 and D is to bring in cash equivalent to 1/4 of this amount as his capital. The capitals of other partners are also to be adjusted in the ratio of their respective shares in profits. The capitals of A, B and C after all adjustments are Rs. 40,000, Rs. 35,000 and Rs. 30,000 respectively. Calculate the new capitals of A,B and C, and record the necessary journal entries.

### *Solution*

1. Calculation of new profit sharing ratio:

A = $\frac{1}{2} - \frac{1}{8} = \frac{3}{8}$

B = $\frac{1}{3} - \frac{1}{8} = \frac{5}{24}$

C will continue to get 1/6 as his share in the profits.
Thus, the new profit sharing ratio between A,B,C and D will be:

$\frac{3}{8} : \frac{5}{24} : \frac{1}{6} : \frac{1}{4}$ or $\frac{9}{24} : \frac{5}{24} : \frac{4}{24} : \frac{6}{24}$ or 9:5:4:6

2. Required capitals of all partners:

A's Capital = Rs. 1,20,000 $\times \frac{9}{24}$ = Rs. 45,000

B's Capital = Rs. 1,20,000 $\times \frac{5}{24}$ = Rs. 25,000

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C's Capital = Rs. 1,20,000 $\times \frac{4}{24}$ = Rs. 20,000

D's Capital = Rs. 1,20,000 $\times \frac{6}{24}$ = Rs. 30,000

Hence, A will bring in Rs. 5,000 (Rs. 45,000 – Rs. 40,000), B will withdraw Rs. 10,000 (Rs. 35,000 – Rs. 25,000), C will withdraw Rs. 10,000 (Rs. 30,000 – Rs, 20,000) and D will bring in Rs. 30,000. Alternatively, the current accounts can be opened and the amounts to be brought in or withdrawn by A, B and C will be transferred to their respective current accounts subject to the agreement among the partners. The journal entries in this regard will be recorded as follows:

**Books of A, B, C and D**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| | Cash A/c | Dr. | | 5,000 | |
| | To A's Capital A/c | | | | 5,000 |
| | (Deficiency made good by additional amount brought in by A) | | | | |
| | B's Capital A/c | Dr. | | | |
| | C's Capital A/c | Dr. | | 10,000 | |
| | To Cash A/c | | | 10,000 | |
| | (Excess amounts withdrawn by B and C) | | | | 20,000 |
| | Cash A/c | Dr. | | 30,000 | |
| | To D's Capital A/c | | | | 30,000 |
| | (Cash brought in by D as Capital) | | | | |

*Alternatively, for entries (2) and (3) above shall be*

**Books of A, B, C and D**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| | A's Current A/c | Dr. | | 5,000 | |
| | To A's Capital A/c | | | | 5,000 |
| | (Deficiency in A's capital transferred to A's Current Account) | | | | |
| | B's Capital A/c | Dr. | | 10,000 | |
| | C's Capital A/c | Dr. | | 10,000 | |
| | To B's Current A/c | | | | 10,000 |
| | To C's Current A/c | | | 10,000 | |
| | (Excess Capital of B transferred to their current account) | | | | |

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### *Illustration 27*

A and B are partners in a firm sharing profits in the ratio 2:1. C is admitted into the firm with 1/4 share in profits. He will bring in Rs. 30,000 as capital and capitals of A and B are to be adjusted in the profit sharing ratio. The Balance Sheet of A and B as on March 31, 2017 (before C's admission) was as under:

**Balance Sheet of A and B as at March 31,2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | | 8,000 | Cash in hand | 2,000 |
| Bills payable | | 4,000 | Cash at bank | 10,000 |
| General Reserve | | 6,000 | Sundry debtors | 8,000 |
| Capitals: A | 50,000 | | Stock | 10,000 |
| B | 32,000 | 82,000 | Furniture | 5,000 |
| | | | Machinery | 25,000 |
| | | | Building | 40,000 |
| | | **1,00,000** | | **1,00,000** |

Other terms of agreement are as under:

1. C will bring in Rs. 12,000 as his share of goodwill.
2. Building was valued at Rs. 45,000 and Machinery at Rs. 23,000.
3. A provision for bad debts is to be created @ 6% on debtors.
4. The capital accounts of A and B are to be adjusted by opening current accounts.

Record necessary journal entries, show necessary ledger accounts and prepare fund's Balance Sheet after C's admission.

**Books of A, B and C**
**Journal**

| *Date 2017* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| March 1 | Cash A/c | Dr. | | 42,000 | |
| | To C's Capital A/c | | | | 30,000 |
| | To Goodwill A/c | | | | 12,000 |
| | (Amounts of capital and goodwill brought in by C) | | | | |
| | Goodwill A/c | Dr. | | 12,000 | |
| | To A's Capital A/c | | | | 8,000 |
| | To B's Capital A/c | | | | 4,000 |
| | (Goodwill brought in by C transferred to A and B in their ratio of sacrifice) | | | | |
| | Revaluation A/c | Dr. | | 2,480 | |
| | To Machinery A/c | | | | 2,000 |
| | To Provision for Bad Debts A/c | | | | 480 |
| | (Decrease in the value of machinery and creation of provision for bad debts) | | | | |

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| | | | | | |
|---|---|---|---|---|---|
| | Building A/c | Dr. | | 5,000 | |
| | To Revaluation A/c | | | | 5,000 |
| | (Increase in the value of building) | | | | |
| | Revaluation A/c | Dr. | | 2,520 | |
| | To A's Capital A/c | | | | 1,680 |
| | To B's Capital A/c | | | | 840 |
| | (Profit on revaluation distributed between A and B) | | | | |
| | General Reserve A/c | Dr. | | 6,000 | |
| | To A's Capital A/c | | | | 4,000 |
| | To B's Capital A/c | | | | 2,000 |
| | (Undistributed profit transferred to A and B) | | | | |
| | A's Capital A/c | Dr. | | 3,680 | |
| | To A's Current A/c | | | | 3,680 |
| | (The excess of capital transferred to partner's current account) | | | | |
| | B's Capital A/c | Dr. | | 8.840 | |
| | To B's Current A/c | | | | 8,840 |
| | (The excess of B's capital transferred to partner's current account) | | | | |

**Revaluation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Machinery | | 2,000 | Building | 5,000 |
| Provision for bad debts | | 480 | | |
| Transfer of profit on revaluation to: | | | | |
| A's Capital | 1,680 | | | |
| B's Capital | 840 | 2,520 | | |
| | | **5,000** | | **5,000** |

**Partners' Capital Accounts**

*Dr.* *Cr.*

| Date | Particulars | A *(Rs.)* | B *(Rs.)* | C *(Rs.)* | Date | Particulars | A *(Rs.)* | B *(Rs.)* | C *(Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Current Accounts | 3,680 | 8,840 | | | Balance b/d | 50,000 | 32,000 | |
| | Balance c/d | 60,000 | 30,000 | 30,000 | | Cash | | 30,000 | |
| | | | | | | Goodwill | 8,000 | 4,000 | |
| | | | | | | General Reserve | 4,000 | 2,000 | |
| | | | | | | Revaluation (transfer of profit) | 1,680 | 840 | |
| | | **63,680** | **38,840** | **30,000** | | | **63,680** | **38,840** | **30,000** |

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**Partners' Current Accounts**

*Dr.* *Cr.*

| Date | Particulars | A *(Rs.)* | B *(Rs.)* | C *(Rs.)* | Date | Particulars | A *(Rs.)* | B *(Rs.)* | C *(Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Balance c/d | 3,680 | 8,840 | - | | Capital A/cs | 3,680 | 8,840 | - |

**Balance Sheet of A, B and C as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Creditors | | 8,000 | Cash in hand | | 44,000 |
| Bills Payable | | 4,000 | Cash at bank | | 10,000 |
| Partners Current accounts: | | | Sundry Debtors | 8000 | |
| A | 3,680 | | *Less:* Provision for | 480 | 7,520 |
| B | 8,840 | 12,520 | Doubtful Debts | | |
| Capitals | | | Stock | | 10,000 |
| A | 60,000 | | Furniture | | 5,000 |
| B | 30,000 | | Machinery | | 23,000 |
| C | 30,000 | 1,20,000 | Buildings | | 45,000 |
| | | **1,44,520** | | | **1,44,520** |

*Notes*

1. New Profit Sharing Ratio

Since nothing is given as to how C acquired his share from A and B. It is assumed that A and B, between themselves continue to share the profit in the old ratio of 2:1.

C's Share of Profits = $\frac{1}{4}$

Remaining Share = $1 - \frac{1}{4} = \frac{3}{4}$

A's New Share = $\frac{2}{3}$ of $\frac{3}{4} = \frac{6}{12} = \frac{1}{2}$

B's New Share = $\frac{1}{3}$ of $\frac{3}{4} = \frac{3}{12} = \frac{1}{4}$

Thus, new profit sharing ratio between A, B and C is 2:1:1.

2. New Capitals of A and B

C's capital is Rs 30,000 and his share of profits is 1/4. Based on C's capital, the total capital of the firm will work out at Rs 1,20,000 (4/1 × 30,000) and the respective capitals of A and B will be as follows :

A's Capital = $\frac{2}{4}$ of 1,20,000 = Rs. 60,000

B's Capital = $\frac{1}{4}$ of 1,20,000 = Rs. 30,000

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### *Illustration 28*

The Balance Sheet of W and R who shared profits in the ratio of 3 : 2 was as follows on January 01, 2015.

**Balance Sheet of W and R as on Jan. 01, 2015**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Sundry Creditors | | 20,000 | Cash in hand | | 5,000 |
| Partner's Capital | | | Sundry Debtors | 20,000 | |
| W | 40,000 | | *Less:* Provision for | 700 | 19,300 |
| R | 30,000 | 70,000 | doubtful debts | | |
| | | | Stock | | 25,000 |
| | | | Plant and Machinery | | 35,000 |
| | | | Patents | | 5,700 |
| | | **90,000** | | | **90,000** |

On this date B was admitted as a partner on the following conditions:

1. He was to get 4/15 share of profit.
2. He had to bring in Rs 30,000 as his capital.
3. He would pay cash for goodwill which would be based on 2 ½ years purchase of the profits of the past four years.
4. W and R would withdraw half the amount of goodwill premium brought by B.
5. The assets would be revalued as: Sundry Debtors at book value less a provision of 5%; Stock at Rs 20,000; Plant and Machinery at Rs 40,000; and Patents at Rs 12,000.
6. Liabilities were valued at Rs 23,000, one bill for goods purchased having been omitted from books.
7. Profit for the past four years were :

| | | | |
|---|---|---|---|
| 2011 | 15,000 | 2013 | 14,000 |
| 2012 | 20,000 | 2014 | 17,000 |

Give necessary journal entries and ledger accounts to record the above, and prepare the Balance Sheet after B's admission.

### *Solution*

The goodwill of the firm is Rs 41,250 worked out as under :

| Profits : | |
|---|---|
| Year 2011 | 15,000 |
| Year 2012 | 20,000 |
| Year 2013 | 14,000 |
| Year 2014 | 17,000 |
| | 66,000 |

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Average Profits = $\text{Rs.}\frac{66,000}{4}$ = Rs. 16,500

Goodwill at 2 ½ Years purchase = Rs.16,500 × $\frac{5}{2}$ = Rs. 41,250

B's share of goodwill = Rs. 41,250 × $\frac{4}{15}$ = Rs, 11,000.

**Books of W, R and B**
**Journal**

| *Date 2015* | *Particulars* | *L.F.* | *Debit (Rs.)* | *Credit (Rs.)* |
|---|---|---|---|---|
| Jan. 01 | Cash A/c Dr. | | 41,000 | |
| | To B's Capital A/c | | | 30,000 |
| | To Goodwill A/c | | | 11,000 |
| | (Sum brought in by B as his Capital and his share (4/5) of the goodwill) | | | |
| | Goodwill A/c Dr. | | 11,000 | |
| | To W's Capital A/c | | | 6,600 |
| | To R's Capital A/c | | | 4,400 |
| | (Goodwill brought by B credited to W's and R's capital accounts in old profit ratio of 3:2 ) | | | |
| | W's Capital A/c Dr. | | 3,300 | |
| | R's Capital A/c | | 2,200 | |
| | To Cash A/c | | | 5,500 |
| | (Amount (half of goodwill) withdrawn by the old partners) | | | |
| | Revaluation A/c Dr. | | 5,300 | |
| | To Provision for Doubtful Debts A/c | | | 300 |
| | To Stock A/c | | | 5,000 |
| | (Increase in provision for doubtfull debts to Rs 1,000 (5% of Rs 20,000) and decrease in value of stock) | | | |
| | Plant and Machinery A/c Dr. | | 5,000 | |
| | Patents A/c Dr. | | 6,300 | |
| | To Revaluation A/c | | | 11,300 |
| | (Increase in value of Plant and Machinery and Patents) | | | |
| | Revaluation A/c Dr. | | 3,000 | |
| | To Sundry Creditors A/c | | | 3,000 |
| | (Increase in liabilities) | | | |

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| | | | | | |
|---|---|---|---|---|---|
| | Revaluation A/c | Dr. | | 3,000 | |
| | To W's Capital A/c | | | | 1,800 |
| | To R's Capital A/c | | | | 1,200 |
| | (Being profit on adjustment transferred to partners' capital accounts) | | | | |

**Cash Account**

*Dr.* *Cr.*

| *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Jan. 1 | Balance b/d | | 5,000 | Jan. 1 | W's Capital | | 3,300 |
| | B's Capital | | 30,000 | | R's Capital | | 2,200 |
| | Goodwill | | 11,000 | | Balance c/d | | 40,500 |
| | | | **46,000** | | | | **46,000** |

**B's Capital Account**

*Dr.* *Cr.*

| *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Jan. 1 | Balance c/d | | 30,000 | Jan. 1 | Cash | | 30,000 |
| | | | **30,000** | | | | **30,000** |

**W's Capital Account**

*Dr.* *Cr.*

| *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Jan.1 | Cash | | 3,300 | Jan. 1 | Balance b/d | | 40,000 |
| | Balance c/d | | 45,100 | | Goodwill | | 6,600 |
| | | | | | Revaluation | | 1,800 |
| | | | **48,400** | | | | **48,400** |

**R's Capital Account**

*Dr.* *Cr.*

| *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2015* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Jan. 1 | Cash | | 2,200 | Jan. 1 | Balance b/d | | 30,000 |
| | Balance c/d | | 33,400 | | Goodwill | | 4,400 |
| | | | | | Revaluation | | 1,200 |
| | | | **35,600** | | | | **35,600** |

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**Revaluation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Provision for doubtful debts | | 300 | Plant and Machinery | 5,000 |
| Stock | | 5,000 | Patents | 6,300 |
| Sundry Creditors | | 3,000 | | |
| Profit transferred to: | | | | |
| W 3/5 | 1,800 | | | |
| R 2/5 | 1,200 | 3,000 | | |
| | | **11,300** | | **11,300** |

**Balance Sheet of W, R and B as on January 01, 2015**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Sundry Creditors | | 23,000 | Cash in hand | | 40,500 |
| Capitals: | | | Sundry debtors : | 20,000 | |
| W | 45,100 | | *Less:* Provision for | | |
| R | 33,400 | | doubtful debits | 1,000 | 19,000 |
| B | 30,000 | 1,08,500 | Stock | | 20,000 |
| | | | Plant & Machinery | | 40,000 |
| | | | Patents | | 12,000 |
| | | **1,31,500** | | | **1,31,500** |

The new profit sharing ratio will be:

$$W = (1 - \frac{4}{15}) \times \frac{3}{5} = \frac{11}{15} \times \frac{3}{5} = \frac{33}{75}$$

$$R = (1 - \frac{4}{15}) \times \frac{2}{5} = \frac{11}{15} \times \frac{2}{5} = \frac{22}{75}$$

$$B = \frac{4}{15} = \frac{20}{75}$$

The new ratio is 33 : 22 : 20.

## 2.9 Change in Profit Sharing Ratio among the Existing Partners

Sometimes, the partners of a firm decide to change their existing profit sharing ratio without any admission or retirement of a partner. This results in a gain of additional share in future profits of the firm for some partners while a loss of a part thereof for other partners. For example, A, B and C are partners in a firm

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sharing profits in the ratios of 8:5:3 It is felt that A will no more be able to actively participate in the affairs of the firm. Hence, with effect from April 1, 2007, they decided that, in future they will share the profits in the ratio of 5 : 6 : 5. This results in A losing $\frac{3}{16}\left(\frac{8}{16}-\frac{5}{16}\right)$ share in profits while B and C gaining $\frac{1}{16}\left(\frac{6}{16}-\frac{5}{16}\right)$ and $\frac{2}{16}\left(\frac{5}{16}-\frac{3}{16}\right)$. In such a situation, the loss and gain in the value of goodwill (if any) will have to be adjusted. This is done by crediting sacrificing partner's and debiting gaining partner's with appropriate amounts, as is explained earlier in the context of the admission of a new partners.

Any change, in the profit sharing ratio, like admission of partner, may also involve adjustments in respect of revaluation of assets and liabilities, transfer of accumulated profit and losses to partners' capital accounts in the old profit sharing ratio and adjustment of partners' capitals, if specified, so as to make them proportionate to the new profit sharing ratio. All this is done in the same way as in case of admission of a partner.

***Illustration 29***

Dinesh, Ramesh and Suresh are partners in a firm sharing profits and losses in the ratio of 3:3:2. They decided to share the profits equally w.e.f. April 1, 2015. Their Balance Sheet as on March 31, 2016 was as follows :

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 1,50,000 | Cash at Bank | 40,000 |
| General Reserve | | 80,000 | Bills Receivable | 50,000 |
| Partner's Loan : | | | Sundry Debtors | 60,000 |
| Dinesh | 40,000 | | Stock | 1,20,000 |
| Ramesh | 30,000 | 70,000 | Fixed Assets | 2,80,000 |
| Partners Capital : | | | | |
| Dinesh | 1,00,000 | | | |
| Ramesh | 80,000 | | | |
| Suresh | 70,000 | 2,50,000 | | |
| | | **5,50,000** | | **5,50,000** |

It was also decide that :

1. The fixed assets should be valued at Rs. 3,31,000.
2. A provisions of 5% on sundry debtors be made doubtful debts.

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3. The goodwill of the firm at this date be valued at $4\frac{1}{2}$ years purchase of the average net profits of last, five years which were Rs. 14,000; Rs. 17,000; Rs. 20,000; Rs. 22,000 and Rs. 27,000 respectively.
4. The value of stock be reduced to Rs. 1,12,000.
5. Goodwill was not to appear in the books. Pass the necessary journal entries and prepare the revised Balance sheet of the firm.

***Solution***

**Books of Dinesh, Ramesh and Suresh**
**Journal**

| | | | | |
|---|---|---|---|---|
| 2016 Apr. 01 | Fixed Assets A/c Dr. | | 51,000 | |
| | To Revaluation A/c | | | 51,000 |
| | (Increase in value of fixed assets) | | | |
| | Revaluation A/c Dr. | | 11,000 | |
| | To Stock A/c | | | 8,000 |
| | To Provisions for Doubtful debts A/c | | | 3,000 |
| | (Decrease in value of stock and creation of provision for doubtful debts) | | | |
| | Revaluation A/c Dr. | | 40,000 | |
| | To Dinesh's Capital A/c | | | 15,000 |
| | To Ramesh's Capital A/c | | | 15,000 |
| | To Suresh's Capital A/c | | | 10,000 |
| | (Profit on revaluation transferred to partners' capital accounts in old profit sharing ratio) | | | |
| | General Reserve A/c Dr. | | 80,000 | |
| | To Dinesh's Capital A/c | | | 30,000 |
| | To Ramesh's Capital A/c | | | 30,000 |
| | To Suresh's Capital A/c | | | 20,000 |
| | (General reserve, transferred to partners' capital accounts in old ratio) | | | |
| | Suresh's Capital A/c Dr. | | 7,500 | |
| | To Dinesh's Capital A/c | | | 3,750 |
| | To Ramesh's Capital A/c | | | 3,750 |
| | (Goodwill adjusted in partners' capital accounts in their sacrificing/gaining ratio) | | | |

*Working Notes:*

1. Gain or sacrifice of partners

| | Dinesh | Ramesh | Suresh |
|---|---|---|---|
| Old Share | 3/8 | 3/8 | 2/8 |
| New Share | 1/3 | 1/3 | 1/3 |
| Difference | 1/24 (sacrifice) | 1/24 (sacrifice) | 2/24 (gain) |

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2. Goodwill

Total Profits : Rs. 14,000 + Rs. 17,000 + Rs. 20,000 + Rs. 22,000 + Rs. 27,000
= Rs. 1,00,000

Average Profits = Rs. 1,00,000/5
= Rs. 20,000

Goodwill = Rs. 20,000 × $4\frac{1}{2}$

= Rs. 90,000

Suresh in expected to bring in Rs. 7,500

as he gain $\frac{2}{24}$ share in profits.

Dinesh in expected to receive Rs. 3,750

as he sacrifices $\frac{1}{24}$ share in profits.

Ramesh is expected to receive Rs. 3,750

as he sacrifices $\frac{1}{24}$ share in profits.

3. Capital Accounts

| *Date* | *Particulars* | *J.F.* | *Dinesh (Rs.)* | *Ramesh (Rs.)* | *Suresh (Rs.)* | *Date* | *Particulars* | *J.F.* | *Dinesh (Rs.)* | *Ramesh (Rs.)* | *Suresh (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dinesh's Account | | | | 3,750 | | Balance b/d | | 1,00,000 | 80,000 | 70,000 |
| | Ramesh's Account | | | | 3,750 | | Profit on Revaluation | | 15,000 | 15,000 | 10,000 |
| | Balance c/d | | 1,48,750 | 1,28,750 | 92,500 | | General Reserve | | 30,000 | 30,000 | 20,000 |
| | | | | | | | Suresh's Account | | 3,750 | 3,750 | |
| | | | **1,48,750** | **1,28,750** | **1,00,000** | | | | **1,48,750** | **1,28,750** | **1,00,000** |

**Balance Sheet as on April 01, 2015**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Sundry Creditors | | 1,50,000 | Cash at Bank | | 40,000 |
| Partner's Loan : | | | Bills Receivable | | 50,000 |
| Dinesh | 40,000 | | Sundry Debtors | 60,000 | |
| Ramesh | 30,000 | 70,000 | Less Prov. for Doubtful Debts | 3,000 | 57,000 |
| Capitals: | | | Stock | | 1,12,000 |
| Dinesh | 1,48,750 | | Fixed Assets | | 3,31,000 |
| Ramesh | 1,28,750 | | | | |
| Suresh | 92,500 | 3,70,000 | | | |
| | | **5,90,000** | | | **5,90,000** |

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## *Terms Introduced in the Chapter*

- Reconstitution of Partnership Firm
- Revaluation of Assets
- Reassessment of liabilities
- Undistributed and accumulated profits and losses
- Accumulated Losses
- Goodwill
- Profit Sharing Ratio
- Reserves
- Revaluation Account
- Sacrificing Ratio
- Change in Profit Sharing Ratio

## *Summary*

1. *Matters requiring adjustments at the time of admission of a partner:* Various matters which need adjustments in the books of firm at the time of admission of a new partner are : goodwill, revaluation of assets and liabilities, reserves and other accumulated profits and losses and the capitals of the old partners' (if agreed).
2. *Determining the new profit sharing ratio and calculating sacrificing ratio:* The new partner acquires his share in profits from the old partners'. This reduces the old partners' share in profits. Hence, the problem of determining the new profit sharing ratio simply involves the determination of old partners' new share in the profits of the reconstituted firm. Given the new partners' share in profits and the ratio, in which he acquires it from the old partners, the new share of each old partner shall be worked out by deducting his share of sacrifice from his old share in profits. The ratio in which the old partners have agreed to sacrifice their shares in profit in favour of the new partner is called the sacrificing ratio. It is usually same as the old profit sharing ratio. However, based on the agreement it can be different also.
3. *Treatment of Goodwill:* Goodwill is an intangible asset and belonges to its owner at a point of time. On the admission of a new partner the goodwill of the firm belongs to the old partners. It means that on the admission of a new partner some adjustments must be made into the capital accounts of the old partners for goodwill so that the new partner will not acquire a share in that profit which the firm earns because of its goodwill earned before admission without making any payment for the same. The amount that the new partner pays for goodwill is called goodwill. From accounting point of view the firm may have to face different situations for the treatment of goodwill at the time of admission of a partner. The amount of premium brought in by the new partner is shared by old partners in the ratio of sacrifice. In case the new partner fails to bring his

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share of premium for goodwill in cash than the capital account of the new partner is debited for his share of premium of goodwill and the old partners capital accounts are credited in their sacrificing ratio.

4. *Adjustments for Revaluation of Assets and Reassessment of Liabilities:* If, at the time of admission of a partner, the assets and liabilities are revalued or some asset or liability is found unrecorded, necessary adjustments are made through the Revaluatiion Account. Any gain or loss arising from such exercise shall be distributed among the old partner's in their old profit sharing ratio.
5. *Adjustment for reserves and accumulated profits/losses:* If, at the time of admission of a partner, any reserve and accumulated profits or losses exist in books of the firm, these should be transferred to old partner's capital/current accounts in their old profit sharing ratio.
6. *Determining/Adjusting partners' capital:* If agreed, the partner's capital may be adjusted so as to be proportionate to their new profit sharing ratio. In that case, the new partner's capital is normally used as a base for determining the new capitals of the old partners and necessary adjustment made through case or by transfer to partner's current accounts. Other basis also may be available for determining capitals of the partners after admissioin of the new partner like sharing the total capital to be in the firm immeidately after admission of the new partner.
7. *Change in profit sharing ratio:* Sometimes the partners of a firm may agree to change their existing profit sharing ratio. With a result, some partners will gain in future profits while others will lose. In such a situation, the partner who gain by change in profit effecting amounts to one partner buying the share of profit from another partner. Apart from the payment for compensation, the change in profit sharing ratio also necessitates adjustment in partners' capital accounts with respect to undistributed profits and reserves, revaluation of assets and reassessment of liabilities.

## *Questions for Practice*

**Short Answer Questions**

1. Identify various matters that need adjustments at the time of admission of a new partner.
2. Why it is necessary to ascertain new profit sharing ratio even for old partners when a new partner is admitted?
3. What is sacrificing ratio? Why is it calculated?
4. On what occasions sacrificing ratio is used?
5. If some goodwill already exists in the books and the new partner brings in his share of goodwill in cash, how will you deal with existing amount of goodwill?
6. Why there is need for the revaluation of assets and liabilities on the admission of a partner?

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**Long Answer Questions**

1. Do you advise that assets and liabilities must be revalued at the time of admission of a partner? If so, why? Also describe how is this treated in the book of account?
2. What is goodwill? What factors affect goodwill?
3. Explain various methods of valuation of goodwill.
4. If it is agreed that the capital of all the partners should be proportionate to the new profit sharing ratio, how will you work out the new capital of each partner? Give examples and state how necessary adjustments will be made.
5. Explain how will you deal with goodwill when new partner is not in a position to bring his share of goodwill in cash.
6. Explain various methods for the treatment of goodwill on the admission of a new partner?
7. How will you deal with the accumulated profits and losses and reserves on the admission of a new partner?
8. At what figures the value of assets and liabilities appear in the books of the firm after revaluation has been due. Show with the help of an imaginary balance sheet.

## *Numerical Questions*

1. A and B were partners in a firm sharing profits and losses in the ratio of 3:2. They admit C into the partnership with 1/6 share in the profits. Calculate the new profit sharing ratio?

   (**Ans :** 3:2:1)

2. A,B,C were partners in a firm sharing profits in 3:2:1 ratio. They admitted D for 10% profits. Calculate the new profit sharing ratio?

   **(Ans :** 9:6:3:2)

3. X and Y are partners sharing profits in 5:3 ratio admitted Z for 1/10 share which he acquired equally for X and Y. Calculate new profit sharing ratio?

   (**Ans :** 23:13:4)

4. A, B and C are partners sharing profits in 2:2:1 ratio admitted D for 1/8 share which he acquired entirely from A. Calculate new profit sharing ratio?

   (**Ans :** 11:16:8:5)

5. P and Q are partners sharing profits in 2:1 ratio. They admitted R into partnership giving him 1/5 share which he acquired from P and Q in 1:2 ratio. Calculate new profit sharing ratio?

   (**Ans :** 3:1:1)

6. A, B and C are partners sharing profits in 3:2:2 ratio. They admitted D as a new partner for 1/5 share which he acquired from A, B and C in 2:2:1 ratio respectively. Calculate new profit sharing ratio?

   (**Ans :** 61:36:43:35)

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7. A and B were partners in a firm sharing profits in 3:2 ratio. They admitted C for 3/7 share which he took 2/7 from A and 1/7 from B. Calculate new profit sharing ratio?

   (**Ans :** 11:9:15)

8. A, B and C were partners in a firm sharing profits in 3:3:2 ratio. They admitted D as a new partner for 4/7 profit. D acquired his share 2/7 from A. 1/7 from B and 1/7 from C. Calculate new profit sharing ratio?

   (**Ans :** 5:13:6:32)

9. Radha and Rukmani are partners in a firm sharing profits in 3:2 ratio. They admitted Gopi as a new partner. Radha surrendered 1/3 of her share in favour of Gopi and Rukmani surrendered 1/4 of her share in favour of Gopi. Calculate new profit sharing ratio?

   (**Ans :** 4:3:3)

10. Singh, Gupta and Khan are partners in a firm sharing profits in 3:2:3 ratio. They admitted Jain as a new partner. Singh surrendered 1/3 of his share in favour of Jain: Gupta surrendered 1/4 of his share in favour of Jain and Khan surrendered 1/5 in favour of Jain. Calculate new profit sharing ratio?

    (**Ans :** 20:15:24:21)

11. Sandeep and Navdeep are partners in a firm sharing profits in 5:3 ratio. They admit C into the firm and the new profit sharing ratio was agreed at 4:2:1. Calculate the sacrificing ratio?

    (**Ans :** 3:5)

12. Rao and Swami are partners in a firm sharing profits and losses in 3:2 ratio. They admit Ravi as a new partner for 1/8 share in the profits. The new profit sharing ratio between Rao and Swami is 4:3. Calculate new profit sharing ratio and sacrificing ratio?

    (**Ans :** New Profit Ratio 4:3:1 and Sacrificing Ratio 4:1)

13. Compute the value of goodwill on the basis of four years' purchase of the average profits based on the last five years? The profits for the last five years were as follows:

| | *Rs.* |
|---|---|
| 2015 | 40,000 |
| 2016 | 50,000 |
| 2017 | 60,000 |
| 2018 | 50,000 |
| 2019 | 60,000 |

    (**Ans :** Rs. 2,08,000)

14. Firm's Capital in a business is Rs. 2,00,000. The normal rate of return on firm's capital is 15%. During the year 2015 the firm earned a profit of Rs. 48,000. Calculate goodwill on the basis of 3 years purchase of super profit?

    (**Ans :** Rs. 54,000)

15. The books of Ram and Bharat showed that the firm's capital on 31.12.2016 was Rs. 5,00,000 and the profits for the last 5 years : 2015 Rs. 40,000; 2014 Rs. 50,000; 2013 Rs. 55,000; 2012 Rs. 70,000 and 2011 Rs. 85,000. Calculate

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the value of goodwill on the basis of 3 years purchase of the average super profits of the last 5 years assuming that the normal rate of return is 10%?

(**Ans :** Rs. 30,000)

16. Rajan and Rajani are partners in a firm. Their capitals were Rajan Rs. 3,00,000; Rajani Rs. 2,00,000. During the year 2015 the firm earned a profit of Rs. 1,50,000. Calculate the value of goodwill of the firm by capitalisation method assuming that the normal rate of return is 20%?

(**Ans :** Rs. 2,50,000)

17. A business has earned average profits of Rs. 1,00,000 during the last few years. Find out the value of goodwill by capitalisation method, given that the assets of the business are Rs. 10,00,000 and its external liabilities are Rs. 1,80,000. The normal rate of return is 10%?

(**Ans :** Rs. 1,80,000)

18. Verma and Sharma are partners in a firm sharing profits and losses in the ratio of 5:3. They admitted Ghosh as a new partner for 1/5 share of profits. Ghosh is to bring in Rs. 20,000 as capital and Rs. 4,000 as his share of goodwill premium. Give the necessary journal entries:
    a) When the amount of goodwill is retained in the business.
    b) When the amount of goodwill is fully withdrawn.
    c) When 50% of the amount of goodwill is withdrawn.
    d) When goodwill is paid privately.

19. A and B are partners in a firm sharing profits and losses in the ratio of 3:2. They decide to admit C into partnership with 1/4 share in profits. C will bring in Rs. 30,000 for capital and the requisite amount of goodwill premium in cash. The goodwill of the firm is valued at Rs, 20,000. The new profit sharing ratio is 2:1:1. A and B withdraw their share of goodwill. Give necessary journal entries?

20. Arti and Bharti are partners in a firm sharing profits in 3:2 ratio, They admitted Sarthi for 1/4 share in the profits of the firm. Sarthi brings Rs. 50,000 for his capital and Rs. 10,000 for his 1/4 share of goodwill. Goodwill already appears in the books of Arti and Bharti at Rs. 5,000. the new profit sharing ratio between Arti, Bharti and Sarthi will be 2:1:1. Record the necessary journal entries in the books of the new firm?

    [Hint: Existing goodwill written-off in old profit sharing ratio]

21. X and Y are partners in a firm sharing profits and losses in 4:3 ratio. They admitted Z for 1/8 share. Z brought Rs. 20,000 for his capital and Rs. 7,000 for his 1/8 share of goodwill. Goodwill already appears in the books at Rs. 40,000. Show necessary journal entries in the books of X, Y and Z?

22. Aditya and Balan are partners sharing profits and losses in 3:2 ratio. They admitted Christopher for 1/4 share in the profits. The new profit sharing ratio agreed was 2:1:1. Christopher brought Rs. 50,000 for his capital. His share of goodwill was agreed to at Rs. 15,000. Christopher could bring only Rs. 10,000

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out of his share of goodwill. Record necessary journal entries in the books of the firm?

23. Amar and Samar were partners in a firm sharing profits and losses in 3:1 ratio. They admitted Kanwar for 1/4 share of profits. Kanwar could not bring his share of goodwill premium in cash. The Goodwill of the firm was valued at Rs. 80,000 on Kanwar's admission. Record necessary journal entry for goodwill on Kanwar's admission.

24. Mohan Lal and Sohan Lal were partners in a firm sharing profits and losses in 3:2 ratio. They admitted Ram Lal for 1/4 share on 1.1.2013. It was agreed that goodwill of the firm will be valued at 3 years purchase of the average profits of last 4 years which were Rs. 50,000 for 2013, Rs. 60,000 for 2014, Rs. 90,000 for 2015 and Rs. 70,000 for 2016. Ram Lal did not bring his share of goodwill premium in cash. Record the necessary journal entries in the books of the firm on Ram Lal's admission when:
    a) Goodwill already appears in the books at Rs. 2,02,500.
    b) Goodwill appears in the books at Rs. 2,500.
    c) Goodwill appears in the books at Rs. 2,05,000.

25. Rajesh and Mukesh are equal partners in a firm. They admit Hari into partnership and the new profit sharing ratio between Rajesh, Mukesh and Hari is 4:3:2. On Hari's admission goodwill of the firm is valued at Rs. 36,000. Hari is unable to bring his share of goodwill premium in cash. Rajesh, Mukesh and Hari decided not to show goodwill in their balance sheet. Record necessary journal entries for the treatment of goodwill on Hari's admission.

26. Amar and Akbar are equal partners in a firm. They admitted Anthony as a new partner and the new profit sharing ratio is 4:3:2. Anthony could not bring this share of goodwill Rs. 45,000 in cash. It is decided to do adjustment for goodwill without opening goodwill account. Pass the necessary journal entry for the treatment of goodwill?

27. Given below is the Balance Sheet of A and B, who are carrying on partnership business on 31.12.2016. A and B share profits and losses in the ratio of 2:1.

**Balance Sheet of A and B as at March 31, 2016**

| *Liabilites* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Bills Payable | | 10,000 | Cash in Hand | 10,000 |
| Creditors | | 58,000 | Cash at Bank | 40,000 |
| Outstanding | | 2,000 | Sundry Debtors | 60,000 |
| Expenses | | | Stock | 40,000 |
| Capitals: | | | Plant | 1,00,000 |
| A | 1,80,000 | | Buildings | 1,50,000 |
| B | 1,50,000 | 3,30,000 | | |
| | | **4,00,000** | | **4,00,000** |

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C is admitted as a partner on the date of the balance sheet on the following terms:

(i) C will bring in Rs. 1,00,000 as his capital and Rs. 60,000 as his share of goodwill for 1/4 share in the profits.
(ii) Plant is to be appreciated to Rs. 1,20,000 and the value of buildings is to be appreciated by 10%.
(iii) Stock is found over valued by Rs. 4,000.
(iv) A provision for bad and doubtful debts is to be created at 5% of debtors.
(v) Creditors were unrecorded to the extent of Rs. 1,000.

Pass the necessary journal entries, prepare the revaluation account and partners' capital accounts, and show the Balance Sheet after the admission of C.

(**Ans :** Gain of Revaluation Rs. 27,000. Balance Sheet Rs. 5,88,000)

28. Leela and Meeta were partners in a firm sharing profits and losses in the ratio of 5:3. In April 2017 they admitted Om as a new partner. On the date of Om's admission the balance sheet of Leela and Meeta showed a balance of Rs. 16,000 in general reserve and Rs. 24,000 (Cr) in Profit and Loss Account. Record necessary journal entries for the treatment of these items on Om's admission. The new profit sharing ratio between Leela, Meeta and Om was 5:3:2.

29. Amit and Viney are partners in a firm sharing profits and losses in 3:1 ratio. On 1.1.2017 they admitted Ranjan as a partner. On Ranjan's admission the profit and loss account of Amit and Viney showed a debit balance of Rs. 40,000. Record necessary journal entry for the treatment of the same.

30. A and B share profits in the proportions of 3/4 and 1/4. Their Balance Sheet on March 31, 2016 was as follows:

**Balance Sheet of A and B as at March 31, 2016**

| *Liabilities* | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|
| Sundry creditors | 41,500 | Cash at Bank | 26,500 |
| Reserve fund | 4,000 | Bills Receivable | 3,000 |
| Capital Accounts | | Debtors | 16,000 |
| A | 30,000 | Stock | 20,000 |
| B | 16,000 | Fixtures | 1,000 |
| | | Land & Building | 25,000 |
| | **91,500** | | **91,500** |

On April 1, 2017, C was admitted into partnership on the following terms:

(a) That C pays Rs. 10,000 as his capital.
(b) That C pays Rs. 5,000 for goodwill. Half of this sum is to be withdrawn by A and B.
(c) That stock and fixtures be reduced by 10% and a 5%, provision for doubtful debts be created on Sundry Debtors and Bills Receivable.
(d) That the value of land and buildings be appreciated by 20%.
(e) There being a claim against the firm for damages, a liability to the extent of Rs. 1,000 should be created.

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(f) An item of Rs. 650 included in sundry creditors is not likely to be claimed and hence should be written back.

Record the above transactions (journal entries) in the books of the firm assuming that the profit sharing ratio between A and B has not changed. Prepare the new Balance Sheet on the admission of C.

(**Ans :** Gain on Revaluation Rs. 1600. Balance Sheet Total Rs. 1,05,950).

31. A and B are partners sharing profits and losses in the ratio of 3:1. On I$^{st}$ April. 2017 they admitted C as a new partner for 1/4 share in the profits of the firm. C brings Rs. 20,000 as for his 1/4 share in the profits of the firm. The capitals of A and B after all adjustments in respect of goodwill, revaluation of assets and liabilities, etc. has been worked out at Rs. 50,000 for A and Rs. 12,000 for B. It is agreed that partner's capitals will be according to new profit sharing ratio. Calculate the new capitals of A and B and pass the necessary journal entries assuming that A and B brought in or withdrew the necessary cash as the case may be for making their capitals in proportion to their profit sharing ratio?
32. Pinky, Qumar and Roopa partners in a firm sharing profits and losses in the ratio of 3:2:1. S is admitted as a new partner for 1/4 share in the profits of the firm, whichs he gets 1/8 from Pinky, and 1/16 each from Qmar and Roopa. The total capital of the new firm after Seema's admission will be Rs. 2,40,000. Seema is required to bring in cash equal to 1/4 of the total capital of the new firm. The capitals of the old partners also have to be adjusted in proportion of their profit sharing ratio. The capitals of Pinky, Qumar and Roopa after all adjustments in respect of goodwill and revaluation of assets and liabilities have been made are Pinky Rs. 80,000, Qumar Rs. 30,000 and Roopa Rs. 20,000. Calculate the capitals of all the partners and record the necessary journal entries for doing adjustments in respect of capitals according to the agreement between the partners?
33. The following was the Balance Sheet of Arun, Bablu and Chetan sharing profits and losses in the ratio of $\frac{6}{14}:\frac{5}{14}:\frac{3}{14}$ respectively.

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capital Accounts: | | 9,000 | Land and Buildings | 24,000 |
| Arun | 19,000 | 3,000 | Furniture | 3,500 |
| Bablu | 16,000 | | Stock | 14,000 |
| Chetan | 8,000 | 43,000 | Debtors | 12,600 |
| Creditors | | | Cash | 900 |
| Bills Payable | | | | |
| | | **55,000** | | **55,000** |

They agreed to take Deepak into partnership and give him a share of 1/8 on the following terms: a) that Deepak should bring in Rs. 4,200 as goodwill and Rs. 7,000 as his Capital; (b) that furniture be depreciated by 12%; (c) that stock be depreciated by 10% (d) that a Reserve of 5% be created for doubtful

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debts: (e) that the value of land and buildings having appreciated be brought upto Rs. 31,000 ;(f) that after making the adjustments the capital accounts of the old partners (who continue to share in the same proportion as before) be adjusted on the basis of the proportion of Deepak's Capital to his share in the business, i.e., actual cash to be paid off to, or brought in by the old partners as the case may be.

Prepare Cash Account, Profit and Loss Adjustment Account (Revaluation Account) and the Opening Balance Sheet of the new firm.

(**Ans :** Gain on revaluation Rs. 4,550. Balance Sheet Total Rs. 68,000))

34. Azad and Babli are partners in a firm sharing profits and losses in the ratio of 2:1. Chintan is admitted into the firm with 1/4 share in profits. Chintan will bring in Rs. 30,000 as his capital and the capitals of Azad and Babli are to be adjusted in the profit sharing ratio. The Balance Sheet of Azad and Babli as on March 31, 2016 (before Chintan's admission) was as follows:

**Balance Sheet of A and B as on 31.03.2016**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | | 8,000 | Cash in hand | 2,000 |
| Bills payable | | 4,000 | Cash at bank | 10,000 |
| General reserve | | 6,000 | Sundry debtors | 8,000 |
| Capital accounts: | | | Stock | 10,000 |
| Azad | 50,000 | | Furniture | 5,000 |
| Babli | 32,000 | 82,000 | Machinery | 25,000 |
| | | | Buildings | 40,000 |
| | | **1,00,000** | | **1,00,000** |

It was agreed that:

i) Chintan will bring in Rs. 12,000 as his share of goodwill premium.
ii) Buildings were valued at Rs. 45,000 and Machinery at Rs. 23,000.
iii) A provision for doubtful debts is to be created @ 6% on debtors.
iv) The capital accounts of Azad and Babli are to be adjusted by opening current accounts.

Record necessary journal entries, show necessary ledger accounts and prepare the Balance Sheet after admission.

(**Ans :** Gain or Revaluation Rs. 2,520. Balance Sheet Rs. 1,44,520).

35. Ashish and Dutta were partners in a firm sharing profits in 3:2 ratio. On Jan. 01, 2015 they admitted Vimal for 1/5 share in the profits. The Balance Sheet of Ashish and Dutta as on March 31, 2016 was as follows:

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**Balance Sheet of A and B as on 1.03.2016**

| *Liabilities* | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|
| Ashish Capital | 80,000 | Land & Building | | 35,000 |
| Dutta's Capital | 35,000 | Plant | | 45,000 |
| Creditors | 15,000 | Debtors | 22,000 | |
| Bills Payable | 10,000 | Less : Provision | 2,000 | 20,000 |
| | | Stock | | 35,000 |
| | | Cash | | 5,000 |
| | **1,40,000** | | | **1,40,000** |

It was agreed that:

i) The value of Land and Building be increased by Rs. 15,000.
ii) The value of plant be increased by 10,000.
iii) Goodwill of the firm be valued at Rs. 20,000.
iv) Vimal to bring in capital to the extent of $1/5^{th}$ of the total capital of the new firm.

Record the necessary journal entries and prepare the Balance Sheet of the firm after Vimal's admission.

(**Ans :** Gain on Revaluation Rs. 25,000. Balance Sheet Total Rs. 2,05,000).

## *Checklist to Check your Understanding*

*Test your Understanding – I*

1. (a), 2 (a), 3. (b).

*Test your Understanding – II*

1. (c), 2. (b), 3. (c), 4. (b), 5. (b).

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# Reconstitution of a Partnership Firm – Retirement/Death of a Partner

**3**

**Learning Objectives**

*After studying this chapter you will be able to:*

- *calculate new profit sharing ratio and gaining ratio of the remaining partners after the retirement/death of a partner;*
- *describe the accounting treatment of goodwill in the event of retirement/ death of a partner;*
- *make the necessary entries in respect of unrecorded assets and liabilities;*
- *make necessary adjustment for accumulated profits or losses;*
- *ascertain the retiring/ deceased partner claim against the firm and explain the mode of its settlement;*
- *prepare the retiring partner's loan account, if required; and*
- *prepare the deceased partner's executor's account in the case of death of a partner and the balance sheet of a reconstituted firm.*

You have learnt that retirement or death of a partner also leads to reconstitution of a partnership firm. On the retirement or death of a partner, the existing partnership deed comes to an end, and in its place, a new partnership deed needs to be framed whereby, the remaining partners continue to do their business on changed terms and conditions. There is not much difference in the accounting treatment at the time of retirement or in the event of death. In both the cases, we are required to determine the sum due to the retiring partner (in case of retirement) and to the legal representatives (in case of deceased partner) after making necessary adjustments in respect of goodwill, revaluation of a assets and liabilities and transfer of accumulated profits and losses. In addition, we may also have to compute the new profit sharing's ratio among the remaining partners and so also their gaining ratio, This covers all these aspects in detail.

## 3.1 Ascertaining the Amount Due to Retiring/ Deceased Partner

The sum due to the retiring partner (in case of retirement) and to the legal representatives/ executors (in case of death) includes:

(i) credit balance of his capital account;
(ii) credit balance of his current account (if any);
(iii) his share of goodwill;
(iv) his share of accumulated profits (reserves);
(v) his share in the gain of revaluation of assets and liabilities;

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(vi) his share of profits up to the date of retirement/death;
(vii) interest on his capital, if involved, up to the date of retirement/death; and
(viii) salary/commission, if any, due to him up to the date of retirement/death.

The following deductions, if any, may have to be made from his share:

(i) debit balance of his current account (if any);
(ii) his share of goodwill to be written off, if necessary;
(iii) his share of accumulated losses;
(iv) his share of loss on revaluation of assets and liabilities;
(v) his share of loss up to the date of retirement/death;
(vi) his drawings up to the date of retirement/death;
(vii) interest on drawings, if involved, up to the date of retirement/death.

Thus, similar to admission, the various accounting aspects involved on retirement or death of a partner are as follows:

1. Ascertainment of new profit sharing ratio and gaining ratio;
2. Treatment of goodwill;
3. Revaluation of assets and liabilities;
4. Adjustment in respect of unrecorded assets and liabilities;
5. Distribution of accumulated profits and losses;
6. Ascertainment of share of profit or loss up to the date of retirement/death;
7. Adjustment of capital, if required;
8. Settlement of the amounts due to retired/deceased partner;

### 3.2 New Profit Sharing Ratio

New profit sharing ratio is the ratio in which the remaining partners will share future profits after the retirement or death of any partner. The new share of each of the remaining partner will consist of his own share in the firm plus the share acquired from the retiring /deceased partner.

Consider the following situations :

(a) normally, the continuing partners acquire the share of retiring or deceased partners in the old profit sharing ratio, and there is no need to compute the new profit sharing ratio among them, as it will be same as the old profit sharing ratio among them. In fact, in the absence of any information regarding profit sharing ratio in which the remaining partners acquire the share of retiring/deceased partner, it is assumed that they will acquire it in the old profit sharing ratio and so share the future profits in their old ratio. For example, Asha, Deepti and Nisha are partners in a firm sharing profits and losses in the ratio of 3:2:1. If Deepti retires, the new profit sharing ratio between Asha and Nisha will be 3:1, unless they decide otherwise.

(b) The continuing partners may acquire the share in the profits of the retiring/deceased partner in a proportion other than their old ratio, In that case, there is need to compute the new profit sharing ratio among them. *For example:* Naveen, Suresh and Tarun are partners sharing profits and losses in the ratio of 5:3:2. Suresh retires from the firm and his share was

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required by Naveen and Tarun in the ratio 2:1. In such a case, the new share of profit will be calculated as follows:

New share of Continuing Partner = Old Share + Acquired share from the Outgoing Partner

Gaining Ratio 2 : 1

Share acquired by Naveen $= \frac{2}{3}$ of $\frac{3}{10}$

$= \frac{2}{3} \times \frac{3}{10} = \frac{2}{10}$

Share acquired by Tarun $= \frac{1}{3}$ of $\frac{3}{10}$

$= \frac{1}{3} \times \frac{3}{10} = \frac{1}{10}$

Share of Naveen $= \frac{5}{10} + \frac{2}{10} = \frac{7}{10}$

Share of Tarun $= \frac{2}{10} + \frac{1}{10} = \frac{3}{10}$

Thus, the new profit sharing ratio of Naveen and Tarun will be = 7 : 3.

(c) The contributing partners may agree on a specified new profit sharing ratio: In that case the ratio so specified will be the new profit sharing ratio.

### 3.3 Gaining Ratio

The ratio in which the continuing partners have acquired the share from the retiring/deceased partner is called the gaining ratio. Normally, the continuing partners acquire the share of retiring/deceased partner in their old profit sharing ratio, In that case, the gaining ratio of the remaining partners will be the same as their old profit sharing ratio among them and there is no need to compute the gaining ratio, Alternatively, proportion in which they acquire the share of the retiring/deceased partner may be duly spacified. In that case, again, there is no need to calculate the gaining ratio as it will be the ratio in which they have acquired the share of profit from the retiring deceased partner. The problem of calculating gaining ratio arises primarily when the new profit sharing ratio of the continuing partners is specified. In such a situation, the gaining ratio should be calculated by, deducting the old share of each continuing partners from his new share i.e., new profit share minus old profit share, i.e., new profit share minus old profit share. For example, Amit, Dinesh and Gagan are partners sharing profits in the ratio of 5:3:2.

Dinesh retires. Amit and Gagan decide to share the profits of the new firm in the ratio of 3:2. The gaining ratio will be calculated as follows :

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Amit's Gaining Share $= \frac{3}{5} - \frac{5}{10} = \frac{6-5}{10} = \frac{1}{10}$

Gagan's Gaining Share $= \frac{2}{5} - \frac{2}{10} = \frac{4-2}{10} = \frac{2}{10}$

Thus, Gaining Ratio of Amit and Gagan = 1:2

This implies Amit gains $\frac{1}{3}$ and Gagan gains $\frac{2}{3}$ of Dinesh's share of profit.

**Gaining share of Continuing Partner = New share – Old share**

**Do it Yourself**

Distinguish between Gaining Ratio and Sacrificing Ratio in terms of:
1. Meaning
2. Effect on Partner's Share of Profit
3. Mode of calculation
4. When to calculate

### *Illustration 1*

Madhu, Neha and Tina are partners sharing profits in the ratio of 5:3:2. Calculate new profit sharing ratio and gaining ratio if
1. Madhu retires
2. Neha retires
3. Tina retires.

### *Solution*

Given old ratio among Madhu : Neha : Tina as 5 : 3 : 2

1. If Madhu retires, new profit sharing Ratio between Neha and Tina will be
   Neha : Tina = 3:2 and Gaining Ratio of Neha and Tina =3:2
2. If Neha retires new profit sharing Ratio between Madhu and Tina will be
   Madhu : Tina = 5:2
   Gaining Ratio of Madhu and Tina = 5:2
3. If Tina retires, new profit sharing ratio between Madhu and Neha will be:
   Madhu : Neha = 5:3
   Gaining ratio of Madhu and Neha = 5:3

### *Illustration 2*

Alka, Harpreet and Shreya are partners sharing profits in the ratio of 3:2:1. Alka retires and her share is taken up by Harpreet and Shreya in the ratio of 3:2. Calculate the new profit sharing ratio.

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***Solution***

Gaining Given, Ratio of Harpreet and Shreya = 3:2 = $\frac{3}{5}:\frac{2}{5}$

Old Profit Sharing Ratio of between Alka, Harpreet and Shreya 3:2:1 = $\frac{3}{6}:\frac{2}{6}:\frac{1}{6}$

Share acquired by Harpreet = $\frac{3}{5}$ of $\frac{3}{6}$ = $\frac{9}{30}$

Share acquired by Shreya = $\frac{2}{5}$ of $\frac{3}{6}$ = $\frac{6}{30}$

New Share = Old Share + Acquired Share

Harpreet's New Share = $\frac{2}{6}+\frac{9}{30}=\frac{19}{30}$

Shreya's New Share = $\frac{1}{6}+\frac{6}{30}=\frac{11}{30}$

New Profit Sharing Ratio of Harpreet and Shreya = 19:11

***Illustration 3***

Murli, Naveen and Omprakash are partners sharing profits in the ratio of $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{1}{8}$. Murli retires and surrenders 2/3rd of his share in favour of Naveen and the remaining share in favour of Omprakash. Calculate new profit sharing and the gaining ratio of the remaining partners.

***Solution***

| | | *Naveen* | *Omprakash* |
|---|---|---|---|
| (i) | Old Share | $\frac{1}{2}$ | $\frac{1}{8}$ |
| (ii) | Share Acquired by Naveen and Omprakash from Murli | = $\frac{2}{3}$ of $\frac{3}{8}=\frac{2}{8}$ | $\frac{1}{3}$ of $\frac{3}{8}=\frac{1}{8}$ |
| (iii) | New Share = (i) + (ii) | = $\frac{1}{2}+\frac{2}{8}$ | $\frac{1}{8}+\frac{1}{8}$ |
| | | = $\frac{6}{8}$ or $\frac{3}{4}$ | = $\frac{2}{8}$ or $\frac{1}{4}$ |

Thus, the New profit sharing Ratio = $\frac{3}{4}:\frac{1}{4}$ or 3:1, and the

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Gaining Ratio = $\frac{2}{8} : \frac{1}{8}$ or 2:1 [as calculated in (ii)].

### *Illustration 4*

Kumar, Lakshya, Manoj and Naresh are partners sharing profits in the ratio of 3 : 2 : 1 : 4. Kumar retires and his share is acquired by Lakshya and Manoj in the ratio of 3:2. Calculate new profit sharing ratio and gaining ratio of the remaining partners.

### *Solution*

| | | *Lakshya* | *Manoj* | *Naresh* |
|---|---|---|---|---|
| (i) | Old Share | $\frac{2}{10}$ | $\frac{1}{10}$ | $\frac{4}{10}$ |
| (ii) | Acquired Share from Kumar | $\frac{3}{5}$ of $\frac{3}{10}$ | $\frac{2}{5}$ of $\frac{3}{10}$ | Nil |
| | | $= \frac{9}{50}$ | $= \frac{6}{50}$ | Nil |
| (iii) | New share = (i) = (ii) | $\frac{2}{10} + \frac{9}{50}$ | $= \frac{1}{10} + \frac{6}{50}$ | $= \frac{4}{10}$ + Nil |
| | | $= \frac{19}{50}$ | $= \frac{11}{50}$ | $= \frac{20}{50}$ |

The New Profit Sharing Ratio is 19 : 11 : 20
Gaining ratio is 3 : 2 : 0

*Notes :* 1. Since Lakshya and Manoj are acquiring Kumar's share of profit in the ratio of 3:2, hence, the gaining ratio will be 3:2 between Lakshya and Manoj.
2. Naresh has neither sacrificed nor gained.

### *Illustration 5*

Ranjana, Sadhna and Kamana are partners sharing profits in the ratio 4:3:2. Ranjana retires; Sadhna and Kamana decided to share profits in future in the ratio of 5:3. Calculate the Gaining Ratio.

### *Solution*

Gaining Share = New Share – Old Share

Sadhna's Gaining Share = $\frac{5}{8} - \frac{3}{9} = \frac{45-24}{72} = \frac{21}{72}$

Kamana's Gaining Share = $\frac{3}{8} - \frac{2}{9} = \frac{27-16}{72} = \frac{11}{72}$

Gaining Ratio between Sadhna and Kamana = 21:11.

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**Do it Yourself**

1. Anita, Jaya and Nisha are partners sharing profits and losses in the ratio of 1 : 1 : 1 Jaya retires from the firm. Anita and Nisha decided to share the profit in future in the ratio 4:3. Calculate the gaining ratio.
2. Azad, Vijay and Amit are partners sharing profits and losses in the proportion of $\frac{1}{4}, \frac{1}{8}$ and $\frac{10}{16}$. Calculate the new profit sharing ratio between continuing partners if (a) Azad retires; (b) Vijay retires; (c) Amit retires.
3. Calculate the gaining ratio in each of the above situations.
4. Anu, Prabha and Milli are partners. Anu retires. Calculate the future profit sharing ratio of continuing partners and gaining ratio if they agree to acquire her share : (a) in the ratio of 5:3; (b) equally.
5. Rahul, Robin and Rajesh are partners sharing profits in the ratio of 3 : 2 : 1. Calculate the new profit sharing ratio of the remaining partners if (i) Rahul retires; (ii) Robin retires; (iii) Rajesh retires.
6. Puja, Priya, Pratistha are partners sharing profits and losses in the ratio of 5 : 3 : 2. Priya retires. Her share is taken by Priya and Pratistha in the ratio of 2 : 1. Calculate the new profit sharing ratio.
7. Ashok, Anil and Ajay are partners sharing profits and losses in the ratio of $\frac{1}{2}, \frac{3}{10}$ and $\frac{1}{5}$. Anil retires from the firm. Ashok and Ajay decide to share future profits and losses in the ratio of 3 : 2. Calculate the gaining ratio.

## 3.4 Treatment of Goodwill

The retiring or deceased partner is entitled to his share of goodwill at the time of retirement/death because the goodwill has been earned by the firm with the efforts of all the existing partners. Hence, at the time of retirement/death of a partner, goodwill is valued as per agreement among the partners the retiring/deceased partner compensated for his share of goodwill by the continuing partners (who have gained due to acquisition of share of profit from the retiring/deceased partner) in their gaining ratio.

The accounting treatment for goodwill in such a situation depends upon whether or, not goodwill already appears in the books of the firm.

### *3.4.1 When goodwill does not appear in the books*

When goodwill does not appear in the books of the firm, credit is given to the retiring partner for the share in goodwill by debiting the goodwill account to gaining partners capital accounts (individually) in their gaining ratio. The journal entry is :

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Gaining Partners Capital A/c Dr. (Individually)
To Retiring Partners Capital A/c
(Share in goodwill of retiring partner adjusted)

Let us take an example to understand the treatment of goodwill.

A, B and C are partners in a firm sharing profits in the ratio of 3:2:1 B retired and the value of goodwill of the firm in valued at Rs. 60,000. A and C continue the business sharing profits in the ratio of 3:1. The journal entry for adjustment of goodwill will be :

| | | | |
|---|---|---|---|
| A's Capital A/c | Dr. | 15,000 | |
| C's Capital A/c | Dr. | 5,000 | |
| To B's Capital A/c | | | 20,000 |

(B's share of goodwill adjusted to remaining partners' capital accounts in their gaining ratio)

It may also happen that as a result of decision on the new profit sharing ratio among the remaining partners, a continuing partner may also sacrifice a part of his share in future profits. In such a situation his capital account will also be credited along with the retiring/deceased partner's capital account in proportion to his sacrifice and the other continuing partners' capital accounts will be debited based on their gain in the future profit ratio.

### *Illustration 6*

Keshav, Nirmal and Pankaj are partners sharing profits and losses in the ratio of 4 : 3 : 2. Nirmal retires and the goodwill is valued at Rs. 72,000. Keshav and Pankaj decided to share future profits and losses in the ratio of 5 : 3. Record necessary journal entries.

### *Solution*

**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Keshav's Capital A/c Dr. | | 13,000 | |
| | Pankaj's Capital A/c Dr. | | 11,000 | |
| | To Nirmal's Capital A/c | | | 24,000 |
| | (Nirmal's share of goodwill adjusted to Keshav and Pankaj in their gaining ratio of 13:11) | | | |

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*Working Notes*

1. Vimal's share of goodwill = Rs. $72,000 \times \frac{3}{9}$ = Rs. 24,000
2. Calculation of Gaining Ratio
   Gaining Share = New Share – Old Share

   Keshav's Gaining Share = $\frac{5}{8} - \frac{4}{9} = \frac{13}{72}$

   Pankaj's Gaining Share = $\frac{3}{8} - \frac{2}{9} = \frac{11}{72}$

   Hence, Gaining Ratio between Keshav and Pankaj is 13:11 i.e. $\frac{13}{24} : \frac{11}{24}$.

### *Illustration 7*

Jaya, Kirti, Ekta and Shewata are partners in a firm sharing profits and losses in the ratio of 2 : 1 : 2 : 1. On Jaya's retirement, the goodwill of the firm is valued at Rs. 36,000. Kirti, Ekta and Shewata decided to share future profits equally. Record the necessary journal entry for the treatment of goodwill without opening 'Goodwill Account'.

### *Solution*

**Books of Kirti, Ekta and Shewata**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Kirti's Capital A/c Dr. | | 6,000 | |
| | Shewata's Capital A/c Dr. | | 6,000 | |
| | To Jaya's Capital A/c | | | 12,000 |
| | (Jaya's share of goodwill adjusted to remaining in their gaining ratio) | | | |

*Working Notes*

1. Jaya's Share of Goodwill

   = Rs. $36,000 \times \frac{2}{6}$ = Rs. 12,000

2. Calculation of Gaining Ratio
   Gaining Share = New Share – Old Share

   Kirti's Gain = $\frac{1}{3} - \frac{1}{6} = \frac{2-1}{6} = \frac{1}{6}$

   Ekta's Gain = $\frac{1}{3} - \frac{2}{6} = \frac{2-2}{6} = \frac{0}{6}$ (Neither Gain nor Sacrifice)

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Shewata's Gain = $\frac{1}{3} - \frac{1}{6} = \frac{2-1}{6} = \frac{1}{6}$

Hence, Gaining ratio between Kirti and Shewata $\frac{1}{6} : \frac{1}{6}$ = 1:1

### *Illustration 8*

Deepa, Neeru and Shilpa were partners in a firm sharing profits in the ratio of 5 : 3 : 2. Neeru retired and the new profit sharing ratio between Deepa and Shilpa was 2 : 3. On Neeru's retirement, the goodwill of the firm was valued at Rs. 1,20,000. Record necessary journal entry for the treatment of goodwill on Neeru's retirement.

### *Solution*

**Books of Deepa and Shilpa**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Shilpa's Capital A/c Dr. | | 48,000 | |
| | To Neeru's Capital A/c | | | 36,000 |
| | To Deepa's Capital A/c | | | 12,000 |
| | (Shilpa compensated Neeru for her share of goodwill and to Deepa for the sacrifice made by her on Neeru's retirement) | | | |

*Working Notes*

1. Calculation of Gaining Ratio
   Gaining Share = New Share – Old Share

   Deepa's Gaining Share = $\frac{2}{5} - \frac{5}{10} = \frac{4-5}{10} = -\frac{1}{10} = \left(\frac{1}{10}\right)$ i.e., Sacrifice.

   Shilpa's Gaining Share = $\frac{3}{5} - \frac{2}{10} = \frac{6-2}{10} = \frac{4}{10}$ i.e., Gain

2. Hence, Shilpa will compensate both Neeru (retiring partner) and Deepa (continuing partner who has sacrificed) to the extent of their sacrifice worked out as follows:
   Deepa's Sacrifice = Goodwill of the firm × Sacrificing Share

   = Rs. $1,20,000 \times \frac{1}{10}$ = Rs. 12,000

   Neeru's (Retiring Partner's Sacrifice) = Rs. $1,20,000 \times \frac{3}{10}$ = Rs. 36,000.

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**Test your Understanding – I**

*Choose the correct option in the following questions:*

1. Abhishek, Rajat and Vivek are partners sharing profits in the ratio of 5:3:2. If Vivek retires, the New Profit Sharing Ratio between Abhishek and Rajat will be–
   (a) 3:2
   (b) 5:3
   (c) 5:2
   (d) None of these
2. The old profit sharing ratio among Rajender, Satish and Tejpal were 2:2:1. The New Profit Sharing Ratio after Satish's retirement is 3:2. The gaining ratio is–
   (a) 3:2
   (b) 2:1
   (c) 1:1
   (d) 2:2
3. Anand, Bahadur and Chander are partners. Sharing Profit equally On Chander's retirement, his share is acquired by Anand and Bahadur in the ratio of 3:2. The New Profit Sharing Ratio between Anand and Bahadur will be–
   (a) 8:7
   (b) 4:5
   (c) 3:2
   (d) 2:3
4. In the absence of any information regarding the acquisition of share in profit of the retiring/deceased partner by the remaining partners, it is assumed that they will acquire his/her share:-
   (a) Old Profit Sharing Ratio
   (b) New Profit Sharing Ratio
   (c) Equal Ratio
   (d) None of these

***Illustration 9***

Hanny, Pammy and Sunny are partners sharing profits in the ratio of 3 : 2 : 1. Goodwill is appearing in the books at a value of Rs. 60,000. Pammy retires and at the time of Pammy's retirement, goodwill is valued at Rs. 84,000. Hanny and Sunny decided to share future profits in the ratio of 2:1. Record the necessary journal entries.

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***Solution***

**Books of Hanny and Sunny**
**Journal**

| *Date* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| | Hanny's Capital A/c | Dr. | | 30,000 | |
| | Pammy's Capital A/c | Dr. | | 20,000 | |
| | Sunny's Capital A/c | Dr. | | 10,000 | |
| | To Goodwill A/c | | | | 60,000 |
| | (Existing goodwill written-off in old ratio) | | | | |
| | Hanny's Capital | Dr. | | 14,000 | |
| | Sunny's Capital | Dr. | | 14,000 | |
| | To Pammy's Capital A/c | | | | 28,000 |
| | (Pammy's share of goodwill adjusted to Hanny's and Sunny's capital account to the extent of their gain) | | | | |

*Working Notes*

(i) Pammy's share of current value of goodwill $\frac{1}{3}$ of Rs. 84,000

$= 84{,}000 \times \frac{1}{3} =$ Rs. 28,000

(ii) Gaining Share = New Share – Old Share

Hanny's Gaining Share $= \frac{2}{3} - \frac{3}{6} = \frac{1}{6}$

Sunny's Gaining Share $= \frac{1}{3} - \frac{1}{6} = \frac{1}{6}$

This gaining Ratio of Hanny and Sunny is $\frac{1}{6} : \frac{1}{6} = 1:1$

### *3.4.2 Hidden Goodwill*

If the firm has agreed to settle the retiring or deceased partner's account by paying him a lump sum amount, then the amount paid to him in excess of what is due to him, based on the balance in his capital account after making necessary adjustments in respect of accumulated profits and losses and revaluation of assets and liabilities, etc., shall be treated as his share of goodwill (known as hidden goodwill). For example, P, Q and R are partners in a firm sharing profits in the ratio of 3:2:1. R retires, and the balance in his capital account after making necessary adjustments on account of reserves, revaluation

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of assets and liabilities workout to be Rs. 60,000, P and Q agreed to pay him Rs. 75,000 in full settlement of his claim. It implies that Rs. 15,000 is R's share of goodwill of the firm. This will be debits to the capital accounts of P and Q in their gaining ratio (3:2 assuming no change in their own profit sharing ratio) and crediting R's capital Account as follows:

| | | | *Rs.* | *Rs.* |
|---|---|---|---|---|
| | P's Capital A/c Dr.<br>Q's Capital A/c Dr.<br>To R's Capital A/c<br>(R's share of goodwill adjusted in P's and Q's capital accounts in their gaining ratio of 3:2) | | 9,000<br>6,000 | <br><br>15,000 |

**Test your Understanding – II**

Choose the correct option in the following questions:

1. On retirement/death of a partner, the retiring/deceased partner's capital account will be credited with
   (a) his/her share of goodwill.
   (b) goodwill of the firm.
   (c) shares of goodwill of remaining partners.
   (d) none of these.
2. Gobind, Hari and Pratap are partners. On retirement of Gobind, the goodwill already appears in the Balance Sheet at Rs. 24,000. The goodwill will be written-off
   (a) by debiting all partners' capital accounts in their old profit sharing ratio.
   (b) by debiting remaining partners' capital accounts in their new profit sharing ratio.
   (c) by debiting retiring partners' capital accounts from his share of goodwill.
   (d) none of these.
3. Chaman, Raman and Suman are partners sharing profits in the ratio of 5:3:2. Raman retires, the new profit sharing ratio between Chaman and Suman will be 1:1. The goodwill of the firm is valued at Rs. 1,00,000 Raman's share of goodwill will be adjusted
   (a) by debiting Chaman's Capital account and Suman's Capital Account with Rs 15,000 each.
   (b) by debiting Chaman's Capital account and Suman's Capital Account with Rs. 21,429 and 8,571 respectively.
   (c) by debiting only Suman's Capital Account with Rs. 30,000.
   (d) by debiting Raman's Capital account with Rs. 30,000.
4. On retirement/death of a partner, the remaining partner(s) who have gained due to change in profit sharing ratio should compensate the
   (a) retiring partners only.
   (b) remaining partners (who have sacrificed) as well as retiring partners.
   (c) remaining partners only (who have sacrificed).
   (d) none of these.

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## 3.5 Adjustment for Revaluation of Assets and Liabilities

At the time of retirement or death of a partner there may be some assets which may not have been shown at their current values. Similarly, there may be certain liabilities which have been shown at a value different from the obligation to be met by the firm. Not only that, there may be some unrecorded assets and liabilities which need to be brought into books. As learnt in case of admission of a partner, a Revaluation Account is prepared in order to ascertain net gain (loss) on revaluation of assets and/or liabilities and bringing unrecorded items into firm's books and the same is transferred to the capital account of all partners including retiring/deceased partners in their old profit sharing ratio. the Journal entries to be passed for this purpose are as follows:

1. *For increase in the value of assets*

| | | |
|---|---|---|
| Assets A/c's (Individually) | Dr. | |
| To Revaluation A/c | | |
| (Increase in the value of assets) | | |

2. *For decrease in the value of assets*

| | | |
|---|---|---|
| Revaluation A/c | Dr. | |
| To Assets A/c's (Individually) | | |
| (Decrease in the value of assets) | | |

3. *For increase in the amount of liabilities*

| | | |
|---|---|---|
| Revaluation A/c | Dr. | |
| To Liabilities A/c (Individually) | | |
| (Increase in the amount of liabilities) | | |

4. *For decrease in the amount of liabilities*

| | | |
|---|---|---|
| Liabilities A/c's (Individually) | Dr. | |
| To Revaluation A/c | | |
| (Decrease in the amount of liabilities) | | |

5. *For an unrecorded asset*

| | | |
|---|---|---|
| Assets A/c | Dr. | |
| To Revaluation A/c | | |
| (Unrecorded asset brought into book) | | |

6. *For an unrecorded liability*

| | | |
|---|---|---|
| Revaluation A/c | Dr. | |
| To Liability A/c | | |
| (Unrecorded liability brought into books) | | |

7. *For distribution of profit or loss on revaluation*

| | | |
|---|---|---|
| Revaluation A/c | Dr. | |
| To All Partners' Capital A/c's (Individually) | | |
| (Profit on revaluation transferred to partner's capital) | | |

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(or)

All Partners' Capital A/c's (Individually) Dr.
To Revaluation A/c
(Loss on revaluation transferred to partner's capital accounts)

### *Illustration 10*

Mitali, Indu and Geeta are partners sharing profits and losses in the ratio of 5 : 3 : 2 respectively. On March 31, 2017, their Balance Sheet was as under:

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capital Accounts: | | | Goodwill | 25,000 |
| Mitali | 1,50,000 | | Buildings | 1,00,000 |
| Indu | 1,25,000 | | Patents | 30,000 |
| Geeta | 75,000 | 3,50,000 | Machinery | 1,50,000 |
| Sundry Creditors | | 55,000 | Stock | 50,000 |
| General Reserve | | 30,000 | Debtors | 40,000 |
| | | | Cash | 40,000 |
| | | **4,35,000** | | **4,35,000** |

Geeta retires on the above date. It was agreed that Machinery be valued at Rs.1,40,000; Patents at Rs. 40,000; and Buildings at Rs. 1,25,000. Record the necessary journal entries for the above adjustmentsand prepare the Revaluation Account.

### *Solution*

**Books of Mitali and Indu**
**Journal**

| *Date 2017* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| Mar. 31 | Revaluation A/c Dr. | | 10,000 | |
| | To Machinery A/c | | | 10,000 |
| | (Decrease in the value of machinery) | | | |
| | Patents A/c Dr. | | 10,000 | |
| | Buildings A/c Dr. | | 25,000 | |
| | To Revaluation A/c | | | 35,000 |
| | (Increase in the value of patents and buildings) | | | |
| | Revaluation A/c Dr. | | 25,000 | |
| | To Mitali's Capital A/c | | | 12,500 |
| | To Indu's Capital A/c | | | 7,500 |
| | To Geeta's Capital A/c | | | 5,000 |
| | (Profit on revaluation transferred to all partner's capital accounts in old profit sharing ratio) | | | |

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**Revaluation Account**

*Dr.* *Cr.*

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Machinery | | 10,000 | Patents | 10,000 |
| Profit | | | Buildings | 25,000 |
| transferred to: | | | | |
| Mitali's Capital A/c | 12,500 | | | |
| Indu's Capital A/c | 7,500 | | | |
| Geeta's Capital A/c | 5,000 | 25,000 | | |
| | | **35,000** | | **35,000** |

## 3.6 Adjustment of Accumulated Profits and Losses

Sometimes, the Balance Sheet of a firm may show accumulated profits in the form of general reserve and/on accumulated losses in the form of profit and loss account debit balance. The retiring/deceased partner is entitled to his/her share in the accumulated profits and is also liable to share the accumulated losses, if any. These accumulated profits or losses belong to all the partners and should be transferred to the capital accounts of all partners in their old profit sharing ratio. The following journal entries are recorded for the purpose.

(i) *For transfer of accumulated profits (reserves),*

Reserves A/c Dr.
  To All Partners' Capital A/c's (Individually)
(Reserves transferred to all partners' capital account's in old profit sharing ratio).

(ii) *For transfer of accumulated losses*

All Partners' Capital A/c's (Individually) Dr.
  To Profit and Loss A/c
(Accumulated loss transferred to all partners' capital accounts in their old profit-sharing ratio)

*For example;* Inder, Gajender and Harinder are partners sharing profits in the ratio of 3 : 2 : 1. Inder retires and the Balance Sheet of the firm on that date was as follows:

**Books of Inder, Gajinder and Harinder**
**Balance Sheet as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | | 50,000 | Bank | 10,000 |
| General Reserve | | 90,000 | Cash | 5,000 |
| Capital Accounts: | | | Stock | 30,000 |
| Inder | 1,00,000 | | Land and Buildings | 3,00,000 |
| Gajender | 55,000 | | | |
| Harinder | 50,000 | 2,05,000 | | |
| | | **3,45,000** | | **3,45,000** |

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The journal entry to record the treatment of general reserve will be as follows :

**Books of Gajender and Harinder**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| 2017 Mar. 31 | General Reserve A/c Dr.<br>To Inder's Capital A/c<br>To Gajender's Capital A/c<br>To Harinder's Capital A/c<br>(General Reserves transferred to all partners' capital accounts in the old ratio on Inder's retirement) | | 90,000 | <br>45,000<br>30,000<br>15,000 |

**When Partner Retires in the Middle of the Year**

Normally retirement of a partner takes place at the end of accounting period. But there can be a case where a partner decides to retire in the middle of the year. In such a case the claim shall include share of profit or loss, interest on capital, interest on drawings if any, from the date of last balance sheet to the date of retirement. Here, the main problem relates to the calculation of profit for the intervening period, i.e., the period from the date of last balance sheet and the date of retirement. Let us understand by way of example:

Maira, Shabnam and Vipul were partners in a firm sharing profits in the ratio of 5:4:1 profits for the year ending on March 31, 2019 was Rs. 1,00,000.

Vipul decides to retire on June 30, 2019. The new profit sharing ratio of the firms is 1:1. Vipul's share of profit for the period of from April 01 to June 30, 2019 shall be calculated as:

Total profit for the year ending on 31st March, 2017 = Rs. 1,00,000

Vipul's share of profit:

Proceeding Year's × Proportionate Period × Share of Deceased Partner

$$= \text{Rs. } 1{,}00{,}000 \times \frac{3}{12} \times \frac{4}{10} = \text{Rs. } 10{,}000$$

The journal entry will be recorded as follows:

| | | | |
|---|---|---|---|
| Profit & Loss Suspense A/c | | Dr. | 10,000 |
| To Vipul's Capital A/c | | | 10,000 |

Vipul's share of profit transferred to his capital account

Alternatively, if Vipul's share of profit was to be calculated on the basis of average profits of the last three years, to which were Rs. 1,36,000 for 2016–17, Rs. 1,54,000 for 2017–18 and Rs. 1,00,000 for 2018–19, Vipul's share of profit

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for the period from April 7, 2019 to June 30, 2019 shall be calculated on the basis of average profit based on profits for the last year calculated as follows:

$$\text{Average Profit} = \frac{\text{Total Profit}}{\text{No. of Years}} = \frac{\text{Rs.1,36,000+Rs.1,54,000+Rs.1,00,000}}{3}$$

$$= \frac{\text{Rs.3,90,000}}{3} = \text{Rs.1,30,000}$$

Vipul's share of Profit $= \frac{\text{Rs.3,90,000}}{3} = \text{Rs.1,30,000}$

= Rs. 13,000

The Journal entry will be:

| | | |
|---|---|---|
| Profit and Loss Suspense A/c | 13,000 | |
| To Vipul's Capital A/c | | 13,000 |

In case, the agreement provides, that share of profit of the retiring partner will be worked out on the basis of sales, and it is specified that the sales during the pear 2018-19 were Rs. 8,00,000 and the sales from April 1, 2017 to June 30, 2019 were Rs. 1,50,000 Vipul's share of profits for the period from April 1, 2019 shall be calculated as follows:

If sale is Rs. 80,00,000, the profit = Rs. 1,00,000

If sale is Rs. 1, the profit $= \frac{1,00,000}{8,00,000}$

If sale is Rs. 1,50,000, the profit $= \frac{1,00,000}{8,00,000} \times 1,50,000$

= Rs. 18,750

Vipul's share of profit = Rs. 7,500

| | | | |
|---|---|---|---|
| Profit & Loss Suspense A/c | Dr. | 75,00 | |
| To Vipul's Capital A/c | | | 75,00 |

For being retiring partners share of profit for the intervening period to books of account, the following journal entry is recorded.

(i) Profit & Loss Suspense A/c Dr.
To Retiring Partners Capital A/c
(Share of profit for intervening/period)

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Later, Profit and Loss suspense account is closed by transferring the amount to the gaining partners capital account in their gaining ratio. The journal entry is:

| | | | |
|---|---|---|---|
| (ii) | Gaining Partners Capital A/c | Dr. | (in gaining ratio) |
| | To Profit & Loss Suspense A/c | | |

Alternatively, the following journal entry can also be passed in place of (i) or (ii)

| | | |
|---|---|---|
| Gaining Partners Capital A/c | Dr. | |
| To Retiring partners Capital A/c | | |
| (Share of profit of retiring partner credited) | | |

## 3.7 Disposal of Amount Due to Retiring Partner

The outgoing partner's account is settled as per the terms of partnership deed i.e., in lumpsum immediately or in various instalments with or without interest as agreed or partly in cash immediately and partly in instalment at the agreed intervals. In the absence of any agreement, Section 37 of the Indian Partnership Act, 1932 is applicable, which states that the outgoing partner has an option to receive either interest @ 6% p.a. till the date of payment or such share of profits which has been earned with his/her money (i.e., based on capital ratio). Hence, the total amount due to the retiring partner which is ascertained after all adjustments have been made is to be paid immediately to the retiring partner. In case the firm is not in a position to make the payment immediately, the amount due is transferred to the retiring Partner's Loan Account, and as and when the amount is paid it is debited to his account. The necessary journal entries recorded are as follows.

1. *When retiring partner is paid cash in full.*

| | | |
|---|---|---|
| Retiring Partners' Capital A/c | Dr. | |
| To Cash/Bank A/c | | |

2. *When retiring partners' whole amount is treated as loan.*

| | | |
|---|---|---|
| Retiring Partners' Capital A/c | Dr. | |
| To Retiring Partners' Loan A/c | | |

3. *When retiring partner is partly paid in cash and the remaining amount treated as loan.*

| | | |
|---|---|---|
| Retiring Partners' Capital A/c | Dr. | (Total Amount due) |
| To Cash/Bank A/c | | (Amount Paid) |
| To Retiring Partners' Loan A/c | | (Amount of Loan) |

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4. When Loan account is settled by paying in instalment includes principal and interest.

   a) For interest on loan
      Interest A/c Dr.
        To Retiring Partner's Loan A/c
   b) For payment of instalment
      Retiring Partner's Loan A/c Dr.
        To Cash/Bank A/c

*Note:*

1. The balance of the retiring partner's loan account is shown on the liabilities side of the Balance Sheet till the last instalment is paid to him/her.
2. Entry number (a) and (b), above will be repeated till the loan is paid off.

### *Illustration 11*

Amrinder, Mahinder and Joginder are partners in a firm. Mahinder retires from the firm. On his date of retirement, Rs. 60,000 becomes due to him. Amrinder and Joginder promised to pay him in instalments every year at the end of the year to which he agreed. Prepare Mahinder's Loan Account in the following cases:

1. When payment is made four yearly instalments plus interest @ 12% p.a. on the unpaid balance.
2. When when payment is made in three yearly instalments of Rs. 20,000 including interest @ 12% p.a on the outstanding balance during the first three years and the balance including interest in the fourth year.
3. When payment is made in 4 equal yearly instalment's including interest @ 12% p.a. on the unpaid balance.

### *Solution*

(a) When payment is made in four yearly instalments plus interest

**Books of Amrinder and Joginder**
**Mahinder's Loan Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Year-I | Bank (15,000+7,200) | | 22,200 | Year-1 | Mahinder Capital | | 60,000 |
| | Balance c/d | | 45,000 | | Interest | | 7,200 |
| | | | **67,200** | | | | **67,200** |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Year-II | Bank | | 20,400 | Year-II | Balance b/d | | 45,000 |
| | (15,000+5,400) | | | | Interest | | 5,400 |
| | Balance c/d | | 30,000 | | | | |
| | | | **50,400** | | | | **50,400** |
| Year-III | Bank | | 18,600 | Year-III | Balance b/d | | 30,000 |
| | (15,000+3,600) | | | | Interest | | 3,600 |
| | Balance c/d | | 15,000 | | | | |
| | | | **33,600** | | | | **33,600** |
| Year-IV | Bank | | 16,800 | Year-IV | Balance b/d | | 15,000 |
| | (15,000+1,800) | | | | Interest | | 1,800 |
| | | | **16,800** | | | | **16,800** |

(b) When payment is made in three yearly instalments of Rs. 20,000 each including interest.

**Books of Amrinder, Mahinder and Joginder**
**Mahinder's Loan Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Year-I | Bank | | 20,000 | Year-I | Mohan's Capital | | 60,000 |
| | Balance c/d | | 47,200 | | Interest | | 7,200 |
| | | | **67,200** | | | | **67,200** |
| Year-II | Bank | | 20,000 | Year-II | Balance b/d | | 47,200 |
| | Balance c/d | | 32,864 | | Interest | | 5,664 |
| | | | **52,864** | | | | **52,864** |
| Year-III | Bank | | 20,000 | Year-III | Balance b/d | | 32,864 |
| | Balance c/d | | 16,808 | | Interest | | 3,944 |
| | | | **36,808** | | | | **36,808** |
| Year-IV | Bank | | 18,825 | Year-IV | Balance b/d | | 16,808 |
| | | | | | Interest | | 2,017 |
| | | | **18,825** | | | | **18,825** |

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(c) When payment is made in four equal yearly instalments including interest @12% (Annually).

**Books of Amrinder and Joginder**
**Mahinder's Loan Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Year-I | Bank | | 19,754 | Year-I | Mohinder's Capital | | 60,000 |
| | Balance c/d | | 47,446 | | Interest | | 7,200 |
| | | | **67,200** | | | | **67,200** |
| Year-II | Bank | | 19,754 | Year-II | Balance b/d | | 47,446 |
| | Balance c/d | | 33,386 | | Interest | | 5,694 |
| | | | **53,140** | | | | **53,140** |
| Year-III | Bank | | 19,754 | Year-III | Balance b/d | | 33,386 |
| | Balance c/d | | 17,638 | | Interest | | 4,006 |
| | | | **37,392** | | | | **37,392** |
| Year-IV | Bank | | 19,754 | Year-IV | Balance b/d | | 17,638 |
| | | | | | Interest | | 2,116 |
| | | | **19,754** | | | | **19,754** |

*Note:* The annual instalment of payment in 4 years @ 12% interest works out at Rs. 19,754 (Annually of Rs. 0.329234 as per Annually Table × 60,000).

It may noted that the accounting treatment for disposal of amount due to retiring partner and deceased partner is similar with a difference that in case of death of a partner, the amount credited to him/her is transferred to his Executors' Account and the payment has to be made to him/her. This shall be taken up later in this chapter.

**Do it Yourself**

Vijay, Ajay and Mohan are friends. They passed B. Com. (Hons) from Delhi University in June, 2016. They decided to start the business of computer hardware.

On Ist of August, 2016, they introduced the capital of Rs. 50,000, Rs. 30,000 and Rs. 20,000 respectively and started the business in partnership at Delhi. The profit sharing ratio decided between there was 4:2:1. The business was running successfully. But on Ist February, 2017, due to certain unavoidable circumstances and family circumstances, Ajay decided to settle in Pune and decided to retires from the partnership on 31st March, 2017; with the consent of partners, Ajay retires as on 31st March, 2017, the position of assets and liabilities are as follows:

*Contd...*

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*Contd...*

**Balance Sheet of Vijay, Ajay and Mohan as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capital Accounts : | | | Goodwill | 56,000 |
| Vijay | 1,80,000 | | Land and Buildings | 1,20,000 |
| Ajay | 1,20,000 | | Machinery | 1,59,000 |
| Mohan | 1,00,000 | 4,00,000 | Motor Van | 31,000 |
| Bills Payable | | 12,000 | Stock | 90,000 |
| General Reserve | | 42,000 | Debtors | 66,000 |
| Creditors | | 90,000 | Cash at bank | 22,000 |
| | | **5,44,000** | | **5,44,000** |

On the date of retirement, the following adjustments were to be made:

1. Firm's goodwill was valued at Rs. 1,48,000.
2. Assets and Liabilities are to be valued as under: Stock Rs. 72,000; Land and Buildings Rs. 1,35,600; Debtors Rs. 63,000; Machinery Rs. 1,50,000; Creditors Rs. 84,000.
3. Vijay to bring Rs. 1,20,000 and Mohan Rs. 30,000 as additional capital.
4. Ajay was to be paid Rs. 97,200 in cash and the balance of his Capital Account to be transferred to his Loan Account. Work out the amount due to Ajay and state as to how will you settle his account?

### *Illustration 12*

The Balance Sheet of Ashish, Suresh and Lokesh who were sharing profits in the ratio of 5 : 3 : 2, is given below as on March 31, 2017.

**Balance Sheet of Ashish, Suresh and Lokesh**
**As on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capitals: | | | Land | 4,00,000 |
| Shyam | 7,20,000 | | Building | 3,80,000 |
| Gagan | 4,15,000 | | Plant & Machinery | 4,65,000 |
| Ram | 3,45,000 | 14,80,000 | Furniture & Fittings | 77,000 |
| Reserve Fund | | 1,80,000 | Stock | 1,85,000 |
| Sundry Creditors | | 1,24,000 | Sundry Debtors | 1,72,000 |
| Outstanding Expresses | | 16,000 | Cash in hand | 1,21,000 |
| | | **18,00,000** | | **18,00,000** |

Suresh retires on June 30, 2017 date and the following adjustments are agreed upon his retirement.

1. Stock was valued at Rs. 1,72,000.
2. Furniture and fittings were valued at Rs. 80,000.

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3. Profit share of Suresh till the date of his retirement is to be calculated on the basis of firm's last year profit which is Rs. 2,00,000.
4. An amount of Rs. 10,000 due from Mr. Deepak, a debtor, was doubtful and a provision for the same was required.
5. Goodwill of the firm was valued at Rs. 2,00,000.
6. Suresh was paid Rs. 40,000 immediately on retirement and the balance was transferred to his loan account.
7. Ashish and Lokesh were to share future profits in the ratio of 3:2.
   Prepare Revaluation Account, Capital Account and Balance Sheet of the reconstituted firm.

## *Solution*

**Books of Ashish, Suresh and Lokesh**
**Revaluation Account**

*Dr.* *Cr.*

| *Particulars* | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|
| Stock | 13,000 | Furniture | | 3,000 |
| Provision for Doubtful Debt | 10,000 | (Loss on Revaluation transferred to : | | |
| | | Ashish's capital | 10,000 | |
| | | Suresh's capital | 6,000 | |
| | | Lokesh's capital | 4,000 | 20,000 |
| | **23,000** | | | **23,000** |

**Partners' Capital Accounts**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Ashish (Rs.)* | *Suresh (Rs.)* | *Lokesh (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Ashish (Rs.)* | *Suresh (Rs.)* | *Lokesh (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| June 30 | Revaluation (Loss) | | 10,000 | 6,000 | 4,000 | June 30 | Bal. b/d | | 7,20,000 | 4,15,000 | 3,45,000 |
| | Suresh's Capital | | 20,000 | | 40,000 | | Reserve fund | | 90,000 | 54,000 | 36,000 |
| | Cash | | | | | | P&L Suspense A/c | | | 15,000 | |
| | Suresh's Loan | | | 40,000 | | | Ashish's Capital | | | 20,000 | |
| | Balance c/d | | | 4,98,000 | | | Lokesh's Capital | | | 40,000 | |
| | | | 7,80,000 | | 3,37,000 | | | | | | |
| | | | **8,10,000** | **5,44,000** | **3,81,000** | | | | **8,10,000** | **5,44,000** | **3,81,000** |

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**Balance Sheet of Ashish and Lokesh as on April 01, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Capitals : | | | Land | | 4,00,000 |
| Ashish | 7,80,000 | | Buildings | | 3,80,000 |
| Lokesh | 3,37,000 | 11,17,000 | Plant and Machinery | | 4,65,000 |
| Suresh's Loan | | 4,98,000 | Furniture | | 80,000 |
| Sundry Creditors | | 1,24,000 | Stock | | 1,72,000 |
| Outstanding Expresses | | 16,000 | Sundry Debtors | 1,72,000 | |
| | | | *Less:* Provision for Doubtful Debts | 10,000 | 1,62,000 |
| | | | Cash (Rs. 1,21,000–Rs. 40,000) | | 81,000 |
| | | | P&L Suspense A/c | | 15,000 |
| | | **17,55,000** | | | **17,55,000** |

*Working Notes*

1. Gaining Share = New Share – Old Share

   Ashish's Gain $= \frac{3}{5} - \frac{5}{10} = \frac{6-5}{10} = \frac{1}{10}$

   Lokesh's Gain $= \frac{2}{5} - \frac{2}{10} = \frac{4-2}{10} = \frac{2}{10}$

   Gaining Ratio between Ashish and Lokesh = 1 : 2,

2. Suresh's Share of Goodwill = $\frac{3}{10}$ × Rs. 2,00,000 = Rs. 60,000

3. Suresh's share of profit = 2,00,000 × $\frac{3}{13} \times \frac{3}{10}$ = Rs. 15,000

### *Illustration 13*

Shyam, Gagan and Ram are partners sharing profit in the ratio of 2 : 2 : 1. Their Balance Sheet as on March 31, 2017 are as under:

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 49,000 | Cash | 8,000 |
| Employees' Provident Fund | | 4,000 | Debtors | 19,000 |
| General Reserve | | 14,500 | Stock | 42,000 |
| Capital: | | | Machinery | 85,000 |
| Shyam | 80,000 | | Building | 1,22,000 |
| Gagan | 62,500 | | Patents | 9,000 |
| Ram | 75,000 | 2,17,500 | | |
| | | **2,85,000** | | **2,85,000** |

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As Gagan got a very good break at an MNC, so he decided to retire on that date and it was decided that Shyam and Ram would share the future profits in the ratio of 5 : 3. Goodwill was valued at Rs. 70,000; Machinery at Rs. 78,000; Buildings at Rs. 1,52,000; stock at Rs. 30,000; and bad debts amounting to Rs. 1,550 were to be written off. Record journal entries in the books of the firm and prepare the Balance Sheet of the new firm.

***Solution***

**Books of Shyam, Ram and Gagan**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| 2017 Mar. 31 | Revaluation A/c Dr.<br>  To Machinery A/c<br>  To Stock A/c<br>  To Debtors A/c<br>(Loss on revaluation of assets recorded on Gagan's retirement) | | 20,550 | <br>7,000<br>12,000<br>1,550 |
| | Building A/c Dr.<br>  To Revaluation A/c<br>(Appreciation in the value of Building on Gagan's retirement) | | 30,000 | <br>30,000 |
| | Revaluation A/c Dr.<br>  To Shyam's Capital A/c<br>  To Gagan's Capital A/c<br>  To Ram's Capital A/c<br>(Profit on revaluation transferred to partners' capital accounts in the ratio of 2 : 2 : 1) | | 9,450 | <br>3,780<br>3,780<br>1,890 |
| | Reserve A/c Dr.<br>  To Shyam's Capital A/c<br>  To Gagan's Capital A/c<br>  To Ram's Capital A/c<br>(Reserve transferred to partner's capital accounts) | | 14,500 | <br>5,800<br>5,800<br>2,900 |
| | Shyam's Capital A/c Dr.<br>Ram's Capital A/c Dr.<br>  To Gagan's Capital A/c<br>(Gagan's share of goodwill adjusted to Shyam and Ram in their gaining ratio of 9 : 7) | | 15,750<br>12,250 | <br><br>28,000 |
| | Gagan's Capital A/c Dr.<br>  To Gagan's Loan A/c<br>(Amount payable to retiring partner transferred to his loan account) | | 1,00,080 | <br>1,00,080 |

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**Balance Sheet of Shyam and Ram as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 49,000 | Cash | 8,000 |
| Employees' Provident Fund | | 4,000 | Debtors | 17,450 |
| Capitals : | | | Stock | 30,000 |
| Shyam | 73,830 | | Machinery | 78,000 |
| Ram | 67,540 | 1,41,370 | Building | 1,52,000 |
| Gagan's Loan | | 1,00,080 | Patents | 9,000 |
| | | **2,94,450** | | **2,94,450** |

*Working Notes*

Share Gained = New Share – Old Share

Shyam's Gain $= \frac{5}{8} - \frac{2}{5} = \frac{25 - 16}{40} = \frac{9}{40}$

Ram's Gain $= \frac{3}{8} - \frac{1}{5} = \frac{15 - 8}{40} = \frac{7}{40}$

Therefore, Gaining Ratio of Shyam and Ram = 9 : 7.

**Revaluation Account**

*Dr.* *Cr.*

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Machinery | | 7,000 | Building | 30,000 |
| Stock | | 12,000 | | |
| Debtors | | 1,550 | | |
| (Profit on Revaluation) | | | | |
| Transfer to Capital | | | | |
| Shyam | 3,780 | | | |
| Gagan | 3,780 | 9,450 | | |
| Ram | 1,890 | **30,000** | | **30,000** |

**Partners' Capital Accounts**

| *Date 2017* | *Particulars* | *J.F.* | *Shyam (Rs.)* | *Gagan (Rs.)* | *Ram (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Shyam (Rs.)* | *Gagan (Rs.)* | *Ram (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mar.31 | Gagan's Capital | | 15,750 | | 12,250 | Mar.31 | Bal. b/d | | 80,000 | 62,500 | 75,000 |
| | Gagan's Loan | | | 1,00,080 | | | Revaluation | | 3,780 | 3,780 | 1,890 |
| | Bal. c/d | | 73,830 | | 67,540 | | Profit | | 5,800 | 5,800 | 2,900 |
| | | | | | | | Reserve | | | | |
| | | | | | | | Shyam's Capital | | | 15,750 | |
| | | | | | | | Ram's Capital | | | 12,250 | |
| | | | **89,580** | **1,00,080** | **79,790** | | | | **89,580** | **1,00,080** | **79,790** |

*Note:* As sufficient balance is not available to pay the due amount to Gagan, the balance in his capital account is transferred to his loan account.

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## 3.8 Adjustment of Partners' Capitals

At the time of retirement or death of a partner, the remaining partners may decide to adjust their capital contributions in their profit sharing ratio. In such a situation, the sum of balances in the capitals of continuing partners may be treated as the total capital of the new firm, unless specified otherwise. Then, to ascertain the new capital of the continuing partners, the total capital of the firm is divided amongst the remaining partners as per the new profit sharing ratio, and the excess or deficiency of capital in the individual capital account's may be worked out. Such excess or shortage shall be adjusted by withdrawal of contribution in cash, as the case may be, for which the following journal entries will be recorded.

(i) For excess capital withdrawn by the partner :

| | | |
|---|---|---|
| Partners' Capital A/c | Dr. | |
| To Cash / Bank A/c | | |

(ii) For amount of capital to be brought in by the partner:

| | | |
|---|---|---|
| Cash / Bank A/c | Dr. | |
| To Partners' Capital A/c | | |

Consider the following situations:
The adjustment of the continuing partner's capitals may involve any one of the three ways as illustrated as follows :

1. When the capital of the new firm as decided by the partners is specified.

### *Illustration 14*

Mohit, Neeraj and Sohan are partners in a firm sharing profits in the ratio of 2 : 1 : 1. Neeraj retires and Mohit and Sohan decided that the capital of the new firm will be fixed at Rs. 1,20,000. The capital accounts of Mohit and Sohan show a credit balance of Rs. 82,000 and Rs. 41,000 respectively after making all the adjustments. Calculate the actual cash to be paid off or to be brought in by the continuing partners and pass the necessary journal entries.

### *Solution*

The New Profit Sharing Ratio between Mohit and Sohan = 2 : 1

| | *Mohit* | *Sohan* |
|---|---|---|
| New Capital based new ratio is | 80,000 | 40,000 |
| Existing Capital (after adjustments) is | 82,000 | 41,000 |
| Cash to be brought in on (Paid off) | 2,000 | 1,000 |

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**Books of Mohit and Sohan**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Mohit's Capital A/c Dr.<br>Sohan's Capital A/c Dr.<br>To Cash A/c<br>(Excess capital withdrawn by Sohan) | | 2,000<br>1,000 | <br><br>3,000 |

2. When the total capital of new firm is not specified.

### *Illustration 15*

Asha, Deepa and Lata are partners in a firm sharing profits in the ratio of 3 : 2 : 1. Deepa retires. After making all adjustments relating to revaluation, goodwill and accumulated profit etc., the capital accounts of Asha and Lata showed a credit balance of Rs. 1,60,000 and Rs. 80,000 respectively. It was decided to adjust the capitals of Asha and Lata in their new profit sharing ratio. You are required to calculate the new capitals of the partners and record necessary journal entries for bringing in or withdrawal of the necessary amounts involved.

### *Solution*

a. Calculation of new capitals of the existinging partners

| | |
|---|---|
| Balance in Asha's Capital (after all adjustments) | = 1,60,000 |
| Balance in Lata's Capital | = 80,000 |
| Total Capital of the New Firm | = 2,40,000 |

Based on the new profit sharing ratio of 3:1

Asha's New Capital = Rs. 2,40,000 $\times \frac{3}{4}$ = 1,80,000

Lata's New Capital = Rs. 2,40,000 $\times \frac{1}{4}$ = 60,000

*Note :The total capital of the new firm is based on the sum of the balance in the capital accounts of the continuing partners.*

b. Calculation of cash to be brought in or withdrawn by the continuing partners :

| | *Asha (Rs.)* | *Lata (Rs.)* |
|---|---|---|
| New Capitals | 1,80,000 | 60,000 |
| Existing Capitals | 1,60,000 | 80,000 |
| c. Cash to be brought in on (paid off) | 20,000 | 20,000 |

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**Books of Asha and Lata**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Bank A/c Dr.<br>To Asha Capital A/c<br>(Cash brought by Asha) | | 20,000 | 20,000 |
| | Lata's Capital A/c Dr.<br>To Bank A/c<br>(Surplus capital withdrawn by Lata) | | 20,000 | 20,000 |

3. When the amount payable to retiring partner will be contributed by continuing partners in such a way that their capitals are adjusted proportionate to their new profit sharing ratio:

### *Illustration 16*

Lalit, Pankaj and Rahul are partners sharing profits in the ratio of 4 : 3 : 3. After all adjustments, on Lalit's retirement with respect to general reserve, goodwill and revaluation etc., the balances in their capital accounts stood at Rs. 70,000, Rs. 60,000 and Rs. 50,000 respectively. It was decided that the amount payable to Lalit will be brought by Pankaj and Rahul in such a way as to make their capitals proportionate to their profit sharing ratio. Calculate the amount to be brought by Pankaj and Rahul and record necessary journal entries for the same. Also record necessary entry for payment to Lalit.

After Lalit's retirement, the new profit sharing ratio between Pankaj and Rahul is 3 : 3, i.e. 1 : 1.

### *Solution*

*a. Calculation of total capital of the new firm*

| | | |
|---|---|---|
| Balance in Pankaj's Capital account (after adjustment) | = | 60,000 |
| Balance in Rahul's Capital account (after adjustment) | = | 50,000 |
| Amount payable to Lalit (Retiring partner) | = | 70,000 |
| Total capital of new firm (i) + (ii) + (iii) | = | 1,80,000 |

*b. Calculation of new capitals of the continuing partners*

Pankaj's New Capital = Rs. 1,80,000 $\times \frac{1}{2}$ = Rs. 90,000

Rahul's New Capital = Rs. 1,80,000 $\times \frac{1}{2}$ = Rs. 90,000

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*c. Calculation of the amounts to be brought in or withdrawn by the continuing partners*

| | *Pankaj (Rs.)* | *Rahul (Rs.)* |
|---|---|---|
| New Capital (Rs. 1,80,000 in the ratio of 1 : 1) | 90,000 | 90,000 |
| Existing capital (after adjustment) | 60,000 | 50,000 |
| Cash to be brought in | 30,000 | 40,000 |

**Books of Pankaj and Rahul**
**Journal**

| *Date* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| | Bank A/c | Dr. | 70,000 | |
| | To Pankaj's Capital A/c | | | 30,000 |
| | To Rahul's Capital A/c | | | 40,000 |
| | (Amounts brought by Pankaj and Rahul) | | | |
| | Lalit's Capital A/c | Dr. | 70,000 | |
| | To Bank A/c | | | 70,000 |
| | (Amount paid to Lalit on retirement) | | | |

### *Illustration 17*

The Balance Sheet of Mohit, Neeraj and Sohan who are partners in a firm sharing profits according to their capitals as on March 31, 2017 was as under:

| *Liabilities* | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | 21,000 | Buildings | | 1,00,000 |
| Mohit's Capital | 80,000 | Machinery | | 50,000 |
| Neeraj's Capital | 40,000 | Stock | | 18,000 |
| Sohan's Capital | 40,000 | Debtors | 20,000 | |
| General Reserve | 20,000 | *Less:* Provision for Bad Debt | 1,000 | 19,000 |
| | | Cash at bank | | 14,000 |
| | **2,01,000** | | | **2,01,000** |

On that date, Neeraj decided to retire from the firm and was paid for his share in the firm subject to the following:

1. Buildings to be appreciated by 20%.
2. Provision for Bad debts to be increased to 15% on Debtors.
3. Machinery to be depreciated by 20%.
4. Goodwill of the firm is valued at Rs. 72,000 and the retiring partner's share is adjusted through the capital accounts of remaining partners.

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5. The capital of the new firm be fixed at Rs. 1,20,000.

Prepare Revaluation Account, Capital Accounts of the partners, and the Balance Sheet after retirement of B.

***Solution***

**Revaluation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Provision for Doubtful Debt | | 2,000 | Building | 20,000 |
| Machinery | | 10,000 | | |
| Capital (Profit on Revaluation) | | | | |
| Mohit | 4,000 | | | |
| Neeraj | 2,000 | | | |
| Sohan | 2,000 | 8,000 | | |
| | | **20,000** | | **20,000** |

*Dr.* **Partners' Capital Accounts** *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Mohit (Rs.)* | *Neeraj (Rs.)* | *Sohan (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Mohit (Rs.)* | *Neeraj (Rs.)* | *Sohan (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mar.31 | Neeraj's Capital | | 12,000 | | 6,000 | Mar.31 | Bal. b/d | | 80,000 | 40,000 | 40,000 |
| | Balance c/d | | 82,000 | 65,000 | 41,000 | | General Reserve | | 10,000 | 5,000 | 5,000 |
| | | | | | | | Revaluation (Profit) | | 4,000 | 2,000 | 2,000 |
| | | | | | | | Mohit's Capital | | | 12,000 | |
| | | | | | | | Sohan's Capital | | | 6,000 | |
| | | | **94,000** | **65,000** | **47,000** | | | | **94,000** | **65,000** | **47,000** |
| | Bank | | | 65,000 | | | Bal. b/d | | 82,000 | 65,000 | 41,000 |
| | Bank | | 2,000 | | 1,000 | | | | | | |
| | Bal. c/d (1) | | 80,000 | | 40,000 | | | | | | |
| | | | **82,000** | **65,000** | **41,000** | | | | **82,000** | **65,000** | **41,000** |

**Balance Sheet as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Capital | | | Building | | 1,20,000 |
| Mohit | 80,000 | | Machinery | | 40,000 |
| Sohan | 40,000 | 1,20,000 | Stock | | 18,000 |
| Creditors | | 21,000 | Debtors | 20,000 | |
| Bank overdraft | | 54,000 | *Less:* Provision for Doubtful Debts (1,000+2,000) | 3,000 | 17,000 |
| | | **1,95,000** | | | **1,95,000** |

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*Working Notes*

1. **Bank Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 14,000 | | Mohit's Capital | | 2,000 |
| | Balance c/d (overdraft) | | 54,000 | | Sohan's Capital | | 1,000 |
| | | | | | Neeraj's Capital | | 65,000 |
| | | | **68,000** | | | | **68,000** |

2. It is assumed that bank overdraft is taken to pay the retiring partners.
3. Cash to be brought in or withdrawn by Mohit and Sohan :

| | | *Mohit (Rs.)* | *Sohan (Rs.)* |
|---|---|---|---|
| (a) | New capitals (Rs.1,20,000 in the ratio of 2:1) | 80,000 | 40,000 |
| (b) | Existing capital (after adjustments) as calculated | 82,000 | 41,000 |
| | Cash to be brought (paid off) | **2,000** | **1,000** |

**Do it Yourself**

1. The Balance Sheet of A, B and C who were sharing the profits in proportion to their capitals stood as on March 31, 2017.

**Balance Sheet as on March 31, 2017**

| *Liabilities* | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|
| Bills Payable | 6,250 | Land and Building | | 12,000 |
| Sundry Creditors | 10,000 | Debtors | 10,500 | |
| General Reserve | 2,750 | *Less* Provision for bad debts | 500 | 10,000 |
| Capitals | | | | |
| A 20,000 | | Bill receivables | | 7,000 |
| B 15,000 | | Stock | | 15,500 |
| C 15,000 | 50,000 | Plant and Machinery | | 11,500 |
| | | Cash at bank | | 13,000 |
| | **69,000** | | | **69,000** |

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B retired on the date of Balance Sheet and the following adjustments were to be made:
(a) Stock was depreciated by 10%.
(b) Factory building was appreciated by 12%.
(c) Provision for doubtful debts to be created up to 5%.
(d) Provision for legal charges to be made at Rs.265.
(e) The goodwill of the firm to be fixed at Rs.10,000.
(f) The capital of the new firm to be fixed at Rs.30,000. The continuing partners decide to keep their capitals in the new profit sharing ratio of 3:2.

Work out the final balances in capital accounts of the firm, and the amounts to be brought in and/or withdrawn by A and C to make their capitals proportionate to then new profit sharing ratio.

2. R, S and M were carrying on business in partnership sharing profits in the ratio of 3:2:1, respectively. On March 31, 2017, Balance Sheet of the firm stood as follows :

**Balance Sheet as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 16,000 | Building | 23,000 |
| Capitals: | | | Debtors | 7,000 |
| R | 20,000 | | Stock | 12,000 |
| S | 7,500 | | Patents | 8,000 |
| M | 12,500 | 40,000 | Bank | 6,000 |
| | | **56,000** | | **56,000** |

Shyam retired on the above mentioned date on the following terms :
(a) Buildings to be appreciated by Rs.8,800.
(b) Provision for doubtful debts to be made @ 5% on debtors.
(c) Goodwill of the firm to be valued at Rs.9,000.
(d) Rs.5,000 to be paid to S immediately and the balance due to him to be treated as a loan carrying interest @ 6% per annum.

Prepare the balance sheet of the reconstituted firm.

## 3.9 Death of a Partner

As stated earlier, the accounting treatment in the event of death of a partner is similar to that in case of retirement of a partner, and that in case of death of a partner his claim is transferred to his executors and settled in the same manner as that of the retired partner. However, there is one major difference that, while the retirement normally takes place at the end of an accounting period, the death of a partner may occur any time. Hence, in case of a partner, his claim shall also include his share of profit or loss, interest on capital, interest on drawings (if any) from the date of the last Balance Sheet to the date of his death of these, the main problem relates to the calculation of profit for the intervening period (i.e., the period from date of the last balance sheet and the date of the partner's death. Since, it is

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considered cumbersome to close the books and prepare final account, for the period, the deceased partner's share of profit may be calculated on the basis of last year's profit (or average of past few years) or on the basis of sales.

For example, Bakul, Champak and Darshan were partners in a firm sharing profits in the ratio of 5:4:1. The profit of the firm for the year ending on March 31, 2017 was Rs.1,00,000. Champak died on June 30, 2017. Bakul and Darshan decided to share profits equally. Champak's share of profit for the period from April 1 to June 30, 2017, shall be calculated as follows:

Total profit for the year ending on 31st March, 2017 = Rs.1,00,000

Champak's share of profit :

Proceeding Year's Profit × Proportionate Period × Share of Deceased Partner

$$= \text{Rs. } 1,00,000 \times \frac{3}{12} \times \frac{4}{10} = \text{Rs. } 10,000$$

The journal entry will be recorded as follows :

| | | | |
|---|---|---|---|
| Profit & Loss Suspense A/c | Dr. | 10,000 | |
| To Champak's Capital A/c | | | 10,000 |

(Champak's share of profit transferred to his capital account)

Alternatively, if Champak's share of profit was to be calculated on the basis of average profits of the last three years, which were Rs. 1,36,000 for 2014-15, Rs. 1,54,000 for 2015-16 and Rs. 1,00,000 for 2016-17; Champahs share of profit for the period from April 7, 2017 to June 30, 2017 shall be calculated on the basis of average profit based on profits for the last year calculation as follows:

$$\text{Average Profit} = \frac{\text{Total Profit}}{\text{No. of years}} = \frac{\text{Rs. } 1,36,000 + \text{Rs. } 1,54,000 + \text{Rs. } 1,00,000}{3}$$

$$= \frac{\text{Rs. } 3,90,000}{3} = \text{Rs. } 1,30,000$$

$$\text{Champak's share of profit} = \text{Rs. } 1,30,000 \times \frac{3 \text{ months}}{12 \text{ months}} \times \frac{4}{10}$$

$$= \text{Rs. } 13,000$$

The Journal entry will be:

| | | | |
|---|---|---|---|
| Profit & Loss Suspense A/c | Dr. | 13,000 | |
| To Champak's Capital A/c | | | 13,000 |

In case, the agreement provides, that share of profit of the deceased partner will be worked out on the basis of sales, and it is specified that the sales during the year 2015-16 were Rs. 8,00,000 and the sales from April 1, 2017 to June 30, 2017 were Rs. 1,50,000 Champak's share of profits for the period from April 1, 2017 to June 30, 2017 shall be calculated as follows.

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If sale is Rs.8,00,000, the profit = Rs.1,00,000

If sale is Rs.1, the profit $= \frac{1,00,000}{8,00,000}$

If sale is Rs.1,50,000, the profit $= \frac{1,00,000}{8,00,000} \times 1,50,000$

= Rs. 18,750

Champak's share of profit = Rs. 7,500

The Journal entry will be:

| | | | |
|---|---|---|---|
| Profit & Loss Suspense A/c | Dr. | 2,500 | |
| To Champak's Capital A/c | | | 7,500 |

For being deceased partner's share of profits for the intervening period to books of account, the following journal entry is recorded.

| | | | |
|---|---|---|---|
| (i) | Profit and Loss (Supense) A/c | Dr. | |
| | To Deceased Partner's Capital A/c | | |
| | (Share of profit for the intervening period) | | |

Later Profit and Loss Suspense account is closed by transferring the account to Gaining Partners' Capital Account in their gaining ratio. The journal entry is:

| | | | |
|---|---|---|---|
| (ii) | Gaining Partners Capital A/c [In gaining ratio] | | |
| | To Profit and Loss Suspense A/c | | |
| | (P&L Suspense account transferred). | | |

Alternatively the following journal entry can also be passed in Place of (i) & (ii)

| | | | |
|---|---|---|---|
| (ii) | Gaining Partners' Capital A/c | Dr. | |
| | To Deceased Partner Capital A/c | | |
| | (share of profit of Deceased Partner credited) | | |

### *Illustration 18*

Anil, Bhanu and Chandu were partners in a firm sharing profits in the ratio of 5:3:2. On March 31, 2017, their Balance Sheet was as under:

**Books of Anil, Bhanu and Chandu**
**Balance Sheet as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | | 11,000 | Buildings | 20,000 |
| Reserve Fund | | 6,000 | Machinery | 30,000 |
| Anil's Capital | 30,000 | | Stock | 10,000 |
| Bhanu's Capital | 25,000 | | Patents | 11,000 |
| Chandu's Capital | 15,000 | 70,000 | Debtors | 8,000 |
| | | | Cash | 8,000 |
| | | **87,000** | | **87,000** |

Anil died on October 1, 2017. It was agreed between his executors and the remaining partners that :

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(a) Goodwill to be valued at $2\frac{1}{2}$ year's purchase of the average profits of the previous four years which were :

Year 2013-14 – Rs.13,000, Year 2014-15 – Rs. 12,000,
Year 2015-16 – Rs.20,000, Year 2016-17 – Rs.15,000

(b) Patents be valued at Rs.8,000; Machinery at Rs.28,000; and Building at Rs.25,000.

(c) Profit for the year 2017-18 be taken as having accrued at the same rate as that of the previous year.

(d) Interest on capital be provided at 10% p.a.

(e) Half of the amount due to Anil be paid immediately.

Prepare Anil's Capital Account and Anil's Executor's Account as on October 1, 2017.

***Solution***

**Books of Anil, Bhanu and Chander**
**Anil's Capital Account**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Oct.1 | Anil's Executors | | 57,000 | April,1 | Balance b/d | | 30,000 |
| | | | | Oct. 1 | Reserve Fund | | 3,000 |
| | | | | | Bhanu's Capital | | 11,250 |
| | | | | | Chandu's Capital | | 7,500 |
| | | | | | Profit & Loss (Suspense) | | 3,750 |
| | | | | | Interest on Capital | | 1,500 |
| | | | **57,000** | | | | **57,000** |

**Anil's Executor's Account**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| Oct.1 | Bank | | 28,500 | Oct.1 | Anil's Capital | | 57,000 |
| | Balance c/d | | 28,500 | | | | |
| | | | **57,000** | | | | **57,000** |

*Working Notes*

1. **Revaluation Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Patents | | 3,000 | | Building | | 5,000 |
| | Machinery | | 2,000 | | | | |
| | | | **5,000** | | | | **5,000** |

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2. Goodwill = 2½ years' purchase × Average Profit

$$\text{Average Profit} = \frac{\text{Rs. } 13{,}000 + \text{Rs. } 12{,}000 + \text{Rs. } 20{,}000 + \text{Rs. } 15{,}000}{4}$$

$$= \frac{\text{Rs. } 60{,}000}{4} = \text{Rs. } 15{,}000$$

$$\text{Goodwill} = \frac{5}{2} \times \text{Rs. } 15{,}000$$

$$= \text{Rs. } 37{,}500$$

$$\text{Anil's Share of Goodwill} = \frac{5}{10} \times \text{Rs. } 37{,}500$$

$$= \text{Rs. } 18{,}750$$

3. Profit from the date of last balance sheet to date of death (April 1, 2017 to October 1, 2017) = 6 months

$$\text{Profit for 6 months} = \text{Rs. } 15{,}000 \times \frac{6}{12} = \text{Rs. } 7{,}500$$

$$\text{Anil's share of profit} = \text{Rs. } 7{,}500 \times \frac{5}{10} = \text{Rs. } 3{,}750$$

4. Interest on Capital (April 1, 2017 to October 1, 2017)

$$= \text{Rs. } 30{,}000 \times \frac{10}{100} \times \frac{6}{12}$$

$$= \text{Rs. } 1{,}500$$

### *Illustration 19*

You are given the Balance Sheet of Mohit, Sohan and Rahul who are partners sharing profits in the ratio of 2 : 2 : 1, as on March 31, 2017.

**Books of Mohit, Sohan and Rahul**
**Balance Sheet as on March 31, 2017.**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| General Reserve | | 25,000 | Goodwill | 30,000 |
| Capitals: | | | Fixed assets | 60,000 |
| Mohit | 30,000 | | Stock | 10,000 |
| Sohan | 25,000 | | Sundry Debtors | 20,000 |
| Rahul | 15,000 | 70,000 | Cash at bank | 15,000 |
| Creditors | | 40,000 | | |
| | | **1,35,000** | | **1,35,000** |

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Sohan died on June 15, 2017. According to the Deed, his legal representatives are entitled to:

(a) Balance in Capital Account;
(b) Share of goodwill valued on the basis of thrice the average of the past 4 years' profits.
(c) Share in profits up to the date of death on the basis of average profits for the past 4 years.
(d) Interest on capital account @ 12% p.a.
(e) New Profit sharing ratio of the firm will be 3:2 among Mohit and Rahul respectively.

Profits for the years ending on March 31 of 2014, 2015, 2016, 2017 respectively were Rs. 15,000, Rs. 17,000, Rs. 19,000 and Rs. 13,000.

Sohan's legal representatives were to be paid the amount due. Mohit and Rahul continued as partner by taking over Sohan's share equally. Work out the amount payable to Sohan's legal representatives.

***Solution***

**Books of Mohit, Sohan and Rahul**
**Sohan's Capital Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Goodwill | | 12,000 | Apr. 1 | Balance b/d | | 25,000 |
| | Sohan's Executor | | 44,158 | Jun.15 | Reserve Fund | | 10,000 |
| | | | | | Mohit's Capital | | 9,600 |
| | | | | | Rahul's Capital | | 9,600 |
| | | | | | Profit & Loss suspense | | 1,333 |
| | | | | | Interest on Capital | | 625 |
| | | | **56,158** | | | | **56,158** |

*Working Notes*

1. Sohan's Share of Goodwill

$$= \text{Goodwill of the Firm} \times \frac{2}{5}$$

$$= \text{Rs. } 48{,}000 \times \frac{2}{5} = \text{Rs. } 19{,}200$$

Goodwill of the Firm $= 3 \times$ Average Profit

$$= 3 \times \frac{\text{Rs. } 64{,}000}{4} = \text{Rs. } 48{,}000$$

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2. Profit and Loss
(Share of Profit from the date of last Balance Sheet to the date of death) $2\frac{1}{2}$ months.

$$= \frac{\text{Rs. } 64{,}000}{4} \times \frac{2}{5} \times \frac{2.5}{12}$$

$$= \text{Rs. } 1{,}333$$

3. Interest on Capital $= \text{Rs. } 25{,}000 \times \frac{12}{100} \times \frac{2.5}{12}$

$$= \text{Rs. } 625$$

**Do it Yourself**

On December 31, 2015, the Balance Sheet of Pinki, Qureshi and Rakesh showed as under :

**Balance Sheet as on December 2015**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| General Reserve | | 20,000 | Buildings | 26,000 |
| Capitals: | | | Investments | 15,000 |
| Pinki | 15,000 | | Debtors | 15,000 |
| Qureshi | 10,000 | | Bills Receivables | 6,000 |
| Rakesh | 10,000 | 35,000 | Stock | 12,000 |
| Sundry Creditors | | 25,000 | Cash | 6,000 |
| | | **80,000** | | **80,000** |

The partnership deed provides that the profit be shared in the ratio of 2:1:1 and that in the event of death of a partner, his executors be entitled to be paid out :
(a) The capital of his credit at the date of last Balance Sheet.
(b) His proportion of reserves at the date of last Balance Sheet.
(c) His proportion of profits to the date of death based on the average profits of the last three completed years, plus 10%, and
(d) By way of goodwill, his proportion of the total profits for the three preceding years. The net profit for the last three years were :

| | *(Rs.)* |
|---|---|
| 2013 | 16,000 |
| 2014 | 16,000 |
| 2015 | 15,400 |

Rakesh died on April 1, 2015. He had withdrawn Rs.5,000 to the date of his death. The investment were sold at par and R's Executors were paid off. Prepare Rakesh's Capital Account that of his executors.

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## *Terms Introduced in the Chapter*

- Retirement of a Partner
- Death of a Partner
- Gaining Ratio
- Executors of deceased Partner
- Executor's Account

## *Summary*

1. *New Profit Sharing Ratio:* New profit sharing ratio is the ratio in which the remaining partner will share future profits after the retirement or death of any partner.

   New Share = Old Share + Acquired Share from the Outgoing partner
2. *Gaining Ratio:* Gaining ratio is the ratio in which the continuing partners have acquired the share from the retiring deceased partner.
3. *Treatment of Goodwill:* The basic rule is that gaining partner(s) shared compensate the sacrificing partner to the extent of their gain for the respective share of goodwill.

   If goodwill already appears in the books, it will be written off by debiting all partner's capital account in their old profit sharing ratio.
4. *Revaluation of Assets and Liabilities*: At the time of retirement/death of a partner, there may be some assets which may not have been shown at their current values. Similarly, there may be certain liabilities which have been shown at a value different from the obligation to be met by the firm.

   Besides this, there may be unrecorded assets and liabilities which have to be recorded.
5. *Accumulated Profits or Losses:* The reserves (Accumulated profits) or losses belong to all the partners and should be transferred to capital account of all partners.
6. Retiring partner/deceased partner may be paid in one lump sum or installments with interest.
7. At the time of retirement/death of a partner, the remaining partner may decide to keep their capital contributions in their profit sharing ratio.

## *Questions for Practice*

**Short Answer Questions**

1. What are the different ways in which a partner can retire from the firm.
2. Write the various matters that need adjustments at the time of retirement of a partners.
3. Distinguish between sacrificing ratio and gaining tab.

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4. Why do firm revaluate assets and reassers their liabilities on retirement or on the event of death of a partner.
5. Why a retiring/deceased partner is entitled to a share of goodwill of the firm.

**Long Answer Questions**

1. Explain the modes of payment to a retiring partner.
2. How will you compute the amount payable to a deceased partner?
3. Explain the treatment of goodwill at the time of retirement or on the event of death of a partner?
4. Discuss the various methods of computing the share in profits in the event of death of a partner.

## *Numerical Questions*

1. Aparna, Manisha and Sonia are partners sharing profits in the ratio of 3 : 2 : 1. Manisha retires and goodwill of the firm is valued at Rs. 1,80,000. Aparna and Sonia decided to share future in the ratio of 3 : 2. Record necessary journal entries.

   (**Ans :** Dr. Aparna's Capital A/c by Rs. 18,000, Dr. Sonia's Capital A/c by Rs. 42,000, Cr. Manisha's Capital A/c by Rs. 60,000).

2. Sangeeta, Saroj and Shanti are partners sharing profits in the ratio of 2 : 3 : 5. Goodwill is appearing in the books at a value of Rs. 60,000. Sangeeta retires and goodwill is valued at Rs. 90,000. Saroj and Shanti decided to share future profits equally. Record necessary journal entries.

3. Himanshu, Gagan and Naman are partners sharing profits and losses in the ratio of 3 : 2 : 1. On March 31, 2019, Naman retires.

   The various assets and liabilities of the firm on the date were as follows:

   Cash Rs. 10,000, Building Rs. 1,00,000, Plant and Machinery Rs. 40,000, Stock Rs. 20,000, Debtors Rs. 20,000 and Investments Rs. 30,000.

   The following was agreed upon between the partners on Naman's retirement:
   (i) Building to be appreciated by 20%.
   (ii) Plant and Machinery to be depreciated by 10%.
   (iii) A provision of 5% on debtors to be created for bad and doubtful debts.
   (iv) Stock was to be valued at Rs. 18,000 and Investment at Rs. 35,000.

   Record the necessary journal entries to the above effect and prepare the revaluation account.

4. Naresh, Raj Kumar and Bishwajeet are equal partners. Raj Kumar decides to retire. On the date of his retirement, the Balance Sheet of the firm showed the following: General Reserves Rs. 36,000 and Profit and Loss Account (Dr.) Rs. 15,000.
   Record the necessary journal entries to the above effect.

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5. Digvijay, Brijesh and Parakaram were partners in a firm sharing profits in the ratio of 2 : 2 : 1. Their Balance Sheet as on March 31, 2020 was as follows:

| *Liabilities* | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|
| Creditors | 49,000 | Cash | 8,000 |
| Reserves | 18,500 | Debtors | 19,000 |
| Digvijay's Capital | 82,000 | Stock | 42,000 |
| Brijesh's Capital | 60,000 | Buildings | 2,07,000 |
| Parakaram's Capital | 75,500 | Patents | 9,000 |
| | **2,85,000** | | **2,85,000** |

Brijesh retired on March 31, 2020 on the following terms:

(i) Goodwill of the firm was valued at Rs. 70,000 and was not to appear in the books.

(ii) Bad debts amounting to Rs. 2,000 were to be written off.

(iii) Patents were considered as valueless.

Prepare Revaluation Account, Partners' Capital Accounts and the Balance Sheet of Digvijay and Parakaram after Brijesh's retirement.

(**Ans :** Loss on Revaluation Rs. 11,000, Balance of Capital Accounts: Digvijay Rs. 66,333 and Parakaram Rs. 67,667, Balance Sheet Total Rs. 2,74,000).

6. Radha, Sheela and Meena were in partnership sharing profits and losses in the proportion of 3:2:1. On April 1, 2019, Sheela retires from the firm. On that date, their Balance Sheet was as follows:

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Trade Creditors | | 3,000 | Cash-in-Hand | 1,500 |
| Bills Payable | | 4,500 | Cash at Bank | 7,500 |
| Expenses Owing | | 4,500 | Debtors | 15,000 |
| General Reserve | | 13,500 | Stock | 12,000 |
| Capitals: | | | Factory Premises | 22,500 |
| Radha | 15,000 | | Machinery | 8,000 |
| Sheela | 15,000 | | Losse Tools | 4,000 |
| Meena | 15,000 | 45,000 | | |
| | | **70,500** | | **70,500** |

The terms were:

a) Goodwill of the firm was valued at Rs. 13,500.

b) Expenses owing to be brought down to Rs. 3,750.

c) Machinery and Loose Tools are to be valued at 10% less than their book value.

d) Factory premises are to be revalued at Rs. 24,300.

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*Prepare:*

1. Revaluation account
2. Partner's capital accounts and
3. Balance sheet of the firm after retirement of Sheela.

(**Ans :** Profit on Revaluation Rs. 1,350, Balance of Capital Accounts: Radha Rs. 19,050 and Meena Rs. 16,350, Balance Sheet Total = Rs. 71,100).

7. Pankaj, Naresh and Saurabh are partners sharing profits in the ratio of 3 : 2 : 1. Naresh retired from the firm due to his illness on Septmber 30, 2017. On that date the Balance Sheet of the firm was as follows:

**Books of Pankaj, Naresh and Saurabh**
**Balance Sheet as on September 30, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| General Reserve | | 12,000 | Bank | | 7,600 |
| Sundry Creditors | | 15,000 | Debtors | 6,000 | |
| Bills Payable | | 12,000 | *Less:* Provision for Doubtful Debt | 400 | 5,600 |
| Outstanding Salary | | 2,200 | | | |
| Provision for Legal Damages | | 6,000 | Stock | | 9,000 |
| Capitals: | | | Furniture | | 41,000 |
| Pankaj | 46,000 | | Premises | | 80,000 |
| Naresh | 30,000 | | | | |
| Saurabh | 20,000 | 96,000 | | | |
| | | **1,43,200** | | | **1,43,200** |

*Additional Information*

(i) Premises have appreciated by 20%, stock depreciated by 10% and provision for doubtful debts was to be made 5% on debtors. Further, provision for legal damages is to be made for Rs. 1,200 and furniture to be brought up to Rs. 45,000.

(ii) Goodwill of the firm be valued at Rs. 42,000.

(iii) Rs. 26,000 from Naresh's Capital account be transferred to his loan account and balance be paid through bank; if required, necessary loan may be obtained form Bank.

(iv) Naresh share of profit till the date of retirement is to be calculated on the basis of last years' profit, i.e., Rs. 60,000.

(v) New profit sharing ratio of Pankaj and Saurabh is decided to be 5 : 1.

Give the necessary ledger accounts and balance sheet of the firm after Naresh's retirement.

(**Ans :** Profit or Revaluation Rs. 18,000, Balance of Capital Account of Pankaj, Rs. 47,000 and of Saurabh, Rs. 25,000).

(Total Amount at Credit in Naresh's Capital = Rs. 54,000, Balance Sheet Total = Rs. 1,54,800).

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8. Puneet, Pankaj and Pammy are partners in a business sharing profits and losses in the ratio of 2 : 2 : 1 respectively. Their balance sheet as on March 31, 2019 was as follows:

**Books of Puneet, Pankaj and Pammy**
**Balance Sheet as on March 31, 2019**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 1,00,000 | Cash at Bank | 20,000 |
| Capital Accounts: | | | Stock | 30,000 |
| Puneet | 60,000 | | Sundry Debtors | 80,000 |
| Pankaj | 1,00,000 | | Investments | 70,000 |
| Pammy | 40,000 | 2,00,000 | Furniture | 35,000 |
| Reserve | | 50,000 | Buildings | 1,15,000 |
| | | **3,50,000** | | **3,50,000** |

Mr. Pammy died on September 30, 2019. The partnership deed provided the following:

(i) The deceased partner will be entitled to his share of profit up to the date of death calculated on the basis of previous year's profit.

(ii) He will be entitled to his share of goodwill of the firm calculated on the basis of 3 years' purchase of average of last 4 years' profit. The profits for the last four financial years are given below:
for 2015–16; Rs. 80,000; for 2016–17, Rs. 50,000; for 2017–18, Rs. 40,000; for 2018–19, Rs. 30,000.
The drawings of the deceased partner up to the date of death amounted to Rs. 10,000. Interest on capital is to be allowed at 12% per annum.
Surviving partners agreed that Rs. 15,400 should be paid to the executors immediately and the balance in four equal yearly instalments with interest at 12% p.a. on outstanding balance.
Show Mr. Pammy's Capital account, his Executor's account till the settlement of the amount due.

(**Ans :** Total amount due is Rs. 75,400)

9. Following is the Balance Sheet of Prateek, Rockey and Kushal as on March 31, 2020.

**Books of Prateek, Rockey and Kushal**
**Balance Sheet as on March 31, 2020**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 16,000 | Bills Receivable | 16,000 |
| General Reserve | | 16,000 | Furniture | 22,600 |
| Capital Accounts: | | | Stock | 20,400 |
| Prateek | 30,000 | | Sundry Debtors | 22,000 |
| Rockey | 20,000 | | Cash at Bank | 18,000 |
| Kushal | 20,000 | 70,000 | Cash in Hand | 3,000 |
| | | **1,02,000** | | **1,02,000** |

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Rockey died on June 30, 2020. Under the terms of the partnership deed, the executors of a deceased partner were entitled to:

a) Amount standing to the credit of the Partner's Capital account.
b) Interest on capital at 5% per annum.
c) Share of goodwill on the basis of twice the average of the past three years' profit and
d) Share of profit from the closing date of the last financial year to the date of death on the basis of last year's profit.

Profits for the year ending on March 31, 2018, March 31, 2019 and March 31, 2020 were Rs. 12,000, Rs. 16,000 and Rs. 14,000 respectively. Profits were shared in the ratio of capitals.

Pass the necessary journal entries and draw up Rockey's capital account to be rendered to his executor.

(**Ans :** Sony's Executor Account is Rs. 33,821)

10. Narang, Suri and Bajaj are partners in a firm sharing profits and losses in proportion of 1/2, 1/6 and 1/3 respectively. The Balance Sheet on April 1, 2020 was as follows:

**Books of Suri and Bajaj**
**Balance Sheet as on April 1, 2020**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Bills Payable | | 12,000 | Freehold Premises | | 40,000 |
| Sundry Creditors | | 18,000 | Machinery | | 30,000 |
| Reserves | | 12,000 | Furniture | | 12,000 |
| Capital Accounts: | | | Stock | | 22,000 |
| Narang | 30,000 | | Sundry Debtors | 20,000 | |
| Suri | 30,000 | | *Less:* Reserve for Bad Debt | 1,000 | 19,000 |
| Bajaj | 28,000 | 88,000 | | | |
| | | | Cash | | 7,000 |
| | | **1,30,000** | | | **1,30,000** |

Bajaj retires from the business and the partners agree to the following:

a) Freehold premises and stock are to be appreciated by 20% and 15% respectively.
b) Machinery and furniture are to be reduced by 10% and 7% respectively.
c) Bad Debts reserve is to be increased to Rs. 1,500.
d) Goodwill is valued at Rs. 21,000 on Bajaj's retirement.
e) The continuing partners have decided to adjust their capitals in their new profit sharing ratio after retirement of Bajaj. Surplus/deficit, if any, in their capital accounts will be adjusted through current accounts.

Prepare necessary ledger accounts and draw the Balance Sheet of the reconstituted firm.

(**Ans :** Profit on Revaluation, Rs. 6,960; Balance in Capital Accounts of Narang, Rs. 49,230; and that of Suri, Rs. 16,410. Amount at Credit in Bajaj Capital is Rs. 41,320).

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11. The Balance Sheet of Rajesh, Pramod and Nishant who were sharing profits in proportion to their capitals stood as on March 31, 2015:

**Books of Rajesh, Pramod and Nishant**
**Balance Sheet as on March 31, 2015**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Bills Payable | | 6,250 | Factory Building | | 12,000 |
| Sundry Creditors | | 10,000 | Debtors | 10,500 | |
| General Reserves | | 2,750 | *Less:* Provision for doubtful debits | 500 | 10,000 |
| Capital Accounts: | | | | | |
| Rajesh | | 20,000 | Bills Receivable | | 7,000 |
| Pramod | 15,000 | | Stock | | 15,500 |
| Nishant | 15,000 | 50,000 | Plant and Machinery | | 11,500 |
| | | | Bank Balance | | 13,000 |
| | | **69,000** | | | **69,000** |

Pramod retired on the date of Balance Sheet and the following adjustments were made:

a) Stock is to be reduced by 10%.
b) Factory buildings were appreciated by 12%.
c) Provision for doubtful debts be created up to 5%.
d) Provision for legal charges to be made at Rs. 265.
e) The goodwill of the firm be fixed at Rs. 10,000.
f) The capital of the new firm be fixed at Rs. 30,000. The continuing partners decide to keep their capitals in the new profit sharing ratio of 3 : 2.

Record journal entries and prepare the balance sheet of the reconstituted firm after transferring the balance in Pramod's Capital account to his loan account.

(**Ans :** Loss on Revaluation, Rs. 400 ; Balance in Capital Accounts of Rajesh, Rs. 18,940; and of Nishant, Rs. 14,705; Pramod's Loan Rs. 18,705, Balance Sheet Total = Rs. 65,220).

12. Following is the Balance Sheet of Jain, Gupta and Malik as on March 31, 2020.

**Books of Jain, Gupta and Malik**
**Balance Sheet as on March 31, 2020**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 19,800 | Land and Building | 26,000 |
| Telephone bills Outstanding | | 300 | Bonds | 14,370 |
| Accounts Payable | | 8,950 | Cash | 5,500 |
| P&L A/c | | 16,750 | Bills Receivable | 23,450 |
| Capitals : | | | Sundry Debtors | 26,700 |
| | | | Stock | 18,100 |
| Jain | 40,000 | | Office Furniture | 18,250 |
| Gupta | 60,000 | | Plants and Machinery | 20,230 |
| Malik | 20,000 | 1,20,000 | Computers | 13,200 |
| | | **1,65,800** | | **1,65,800** |

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The partners have been sharing profits in the ratio of 5:3:2. Malik decides to retire from business on April 1, 2020 and his share in the business is to be calculated as per the following terms of revaluation of assets and liabilities :
Stock, Rs.20,000; Office furniture, Rs.14,250; Plant and Machinery Rs.23,530; Land and Building Rs.20,000.
A provision of Rs.1,700 to be created for doubtful debts. The goodwill of the firm is valued at Rs.9,000.
The continuing partners agreed to pay Rs.16,500 as cash on retirement of Malik, to be contributed by continuing partners in the ratio of 3:2. The balance in the capital account of Malik will be treated as loan.
Prepare Revaluation account, capital accounts, and Balance Sheet of the reconstituted firm.

(**Ans :** Loss on Revaluation, Rs. 6,500. Balance in Capital Accounts Jain Rs. 53,900 Gupta Rs. 69,000. Malik's loan a/c 7,350. Balance Sheet Total = Rs. 1,59,300).

13. Arti, Bharti and Seema are partners sharing profits in the proportion of 3:2:1 and their Balance Sheet as on March 31, 2020 stood as follows :

**Books of Arti, Bharti and Seema**
**Balance Sheet as on March 31, 2020**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Bills Payable | | 12,000 | Buildings | 21,000 |
| Creditors | | 14,000 | Cash in Hand | 12,000 |
| General Reserve | | 12,000 | Bank | 13,700 |
| Capitals: | | | Debtors | 12,000 |
| Arti | 20,000 | | Bills Receivable | 4,300 |
| Bharti | 12,000 | | Stock | 1,750 |
| Seema | 8,000 | 40,000 | Investment | 13,250 |
| | | **78,000** | | **78,000** |

Bharti died on June 12, 2020 and according to the deed of the said partnership, her executors are entitled to be paid as under :

(a) The capital to her credit at the time of her death and interest thereon @ 10% per annum.
(b) Her proportionate share of reserve fund.
(c) Her share of profits for the intervening period will be based on the sales during that period, which were calculated as Rs.1,00,000. The rate of profit during past three years had been 10% on sales.
(d) Goodwill according to her share of profit to be calculated by taking twice the amount of the average profit of the last three years less 20%. The profits of the previous years were :
    2017 – Rs.8,200
    2018 – Rs.9,000
    2019 – Rs.9,800

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The investments were sold for Rs.16,200 and her executors were paid out. Pass the necessary journal entries and write the account of the executors of Bharti.

(**Ans :** Total amount to executors of Bharati Rs. 23,436).

14. Nithya, Sathya and Mithya were partners sharing profits and losses in the ratio of 5:3:2. Their Balance Sheet as on March 31, 2020 was as follows :

**Books of Nithya, Sathya and Mithya**
**Balance Sheet at March 31, 2020**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | | 14,000 | Investments | 10,000 |
| Reserve Fund | | 6,000 | Goodwill | 5,000 |
| Capitals: | | | Premises | 20,000 |
| Nithya | 30,000 | | Patents | 6,000 |
| Sathya | 30,000 | | Machinery | 30,000 |
| Mithya | 20,000 | 80,000 | Stock | 13,000 |
| | | | Debtors | 8,000 |
| | | | Bank | 8,000 |
| | | **1,00,000** | | **1,00,000** |

Mithya dies on August 1, 2020. The agreement between the executors of Mithya and the partners stated that :

(a) Goodwill of the firm be valued at $2\frac{1}{2}$ times the average profits of last four years. The profits of four years were : in 2016-17, Rs.13,000; in 2017-18, Rs.12,000; in 2018-19, Rs.16,000; and in 2014-15, Rs.15,000.

(b) The patents are to be valued at Rs.8,000, Machinery at Rs.25,000 and Premises at Rs.25,000.

(c) The share of profit of Mithya should be calculated on the basis of the profit of 2019-20.

(d) Rs.4,200 should be paid immediately and the balance should be paid in 4 equal half-yearly instalments carrying interest @ 10%.

Record the necessary journal entries to give effect to the above and write the executor's account till the amount is fully paid. Also prepare the Balance Sheet of Nithya and Sathya as it would appear on August 1, 2020 after giving effect to the adjustments.

(**Ans :** Amount Transfered to Mithya's executors loan account Rs. 25,400).

## *Checklist to Test your Understanding*

*Test your Understanding – I*

1. (b), 2. (c), 3. (b), 4. (a).

*Test your Understanding – II*

1. (a), 2. (a), 3. (c), 4. (b).

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# Dissolution of Partnership Firm

# 4

**Learning Objectives**

*After studying this chapter you will be able to :*

- *State the meaning of dissolution of partnership firm;*
- *Differentiate between dissolution of partnership and dissolution of a partnership firm;*
- *Describe the various modes of dissolution of the partnership firm;*
- *Explain the rules relating to the settlement of claims among all partners;*
- *Prepare Realisation Account;*

You have learnt about the reconstitution of a partnership firm which takes place on account of admission, retirement or death of a partner. In such a situation while the existing partnership is dissolved, the firm may continue under the same name if the partners so decide. In other words, it results in the dissolution of a partnership but not that of the firm. According to Section 39 of the partnership Act 1932, the dissolution of partnership between all the partners of a firm is called the dissolution of the firm. That means the Act recognises the difference in the breaking of relationship between all the partners of a firm and between some of the partners; and it is the breaking or discontinuance of relationship between all the partners which is termed as the dissolution of partnership firm. This brings an end to the existence of firm, and no business is transacted after dissolution except the activities related to closing of the firm as the affairs of the firm are to be wound up by selling firm's assets and paying its liabilities and discharging the claims of the partners.

## 4.1 Dissolution of Partnership

As stated earlier dissolution of partnership changes the existing relationship between partners but the firm may continue its business as before. The dissolution of partnership may take place in any of the following ways:

(1) Change in existing profit sharing ratio among partners;

(2) Admission of a new partner;

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(3) Retirement of a partner;
(4) Death of a partner;
(5) Insolvency of a partner;
(6) Completion of the venture, if partnership is formed for that; and
(7) Expiry of the period of partnership, if partnership is for a specific period of time;

## 4.2 Dissolution of a Firm

Dissolution of a partnership firm may take place without the intervention of court or by the order of a court, in any of the ways specified later in this section. It may be noted that dissolution of the firm necessarily brings in dissolution of the partnership. However, dissolution of partnership would not necessarily involve dissolution of firms.

Dissolution of a firm takes place in any of the following ways:

1. *Dissolution by Agreement:* A firm is dissolved :
   (a) with the consent of all the partners or
   (b) in accordance with a contract between the partners.
2. *Compulsory Dissolution:* A firm is dissolved compulsorily in the following cases:
   (a) when all the partners or all but one partner, become insolvent, rendering them incompetent to sign a contract;
   (b) when the business of the firm becomes illegal; or
   (c) when some event has taken place which makes it unlawful for the partners to carry on the business of the firm in partnership, e.g., when a partner who is a citizen of a country becomes an alien enemy because of the declaration of war with his country and India.
3. *On the happening of certain contingencies:* Subject to contract between the partners, a firm is dissolved :
   (a) if constituted for a fixed term, by the expiry of that term;
   (b) if constituted to carry out one or more ventures, by the completion thereof;
   (c) by the death of a partner;
   (d) by the adjudication of a partner as an insolvent.
4. *Dissolution by Notice:* In case of partnership at will, the firm may be dissolved if any one of the partners gives a notice in writing to the other partners, signifying his intention of seeking dissolution of the firm.
5. *Dissolution by Court:* At the suit of a partner, the court may order a partnership firm to be dissolved on any of the following grounds:
   (a) when a partner becomes insane;
   (b) when a partner becomes permanently incapable of performing his duties as a partner;

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(c) when a partner is guilty of misconduct which is likely to adversely affect the business of the firm;
(d) when a partner persistently commits breach of partnership agreement;
(e) when a partner has transferred the whole of his interest in the firm to a third party;
(f) when the business of the firm cannot be carried on except at a loss; or
(g) when, on any ground, the court regards dissolution to be just and equitable.

**Distinction between Dissolution of Partnership and Dissolution of Firm**

| *Basis* | *Dissolution of Partnership* | *Dissolution of Firm* |
|---|---|---|
| 1. Termination of business | The business is not terminated. | The business of the firm is closed. |
| 2. Settlement of assets and liabilities | Assets and liabilities are revalued and new balance sheet is drawn. | Assets are sold and liabilities are paid-off. |
| 3. Court's intervention | Court does not intervene because partnership is dissolved by mutual agreement. | A firm can be dissolved by the court's order. |
| 4. Economic relationship | Economic relationship between the partners continues though in a changed form. | Economic relationship between the partners comes to an end. |
| 5. Closure of books | Does not require because the business is not terminated. | The books of account are closed. |

**Test your Understanding – I**

State giving reasons, which of the following statements are true or false:
1. Dissolution of a partnership is different from dissolution of a firm,
2. A partnership is dissolved when there is a death of a partner,
3. A firm is dissolved when all partners give consent to it.
4. A firm is compulsorily dissolved when a partner decide to retire.
5. Dissolution of a firm necessarily involves dissolution of partnership.
6. A firm is compulsorily dissolved when all partners or when all except one partner become involvent.
7. Court can order a firm to be dissolved when a partner becomes insane.
8. Dissolution of partnership can not take place without intervention of the court.

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### 4.3 Settlement of Accounts

In case of dissolution of a firm, the firm ceases to conduct business and has to settle its accounts. For this purpose, it disposes off all its assets for satisfying all the claims against it. In this context it should be noted that, subject to agreement among the partners, the following rules as provided in Section 48 of the Partnership Act 1932 shall apply.

(a) *Treatment of Losses*

Losses, including deficiencies of capital, shall be paid :

(i) first out of profits,
(ii) next out of capital of partners, and
(iii) lastly, if necessary, by the partners individually in their profit sharing ratio.

(b) *Application of Assets*

The assets of the firm, including any sum contributed by the partners to make up deficiencies of capital, shall be applied in the following manner and order:

(i) In paying the debts of the firm to the third parties;
(ii) In paying each partner proportionately what is due to him/her from the firm for advances as distinguished from capital (i.e. partner' loan);
(iii) In paying to each partner proportionately what is due to him on account of capital; and
(iv) the residue, if any, shall be divided among the partners in their profit sharing ratio.

Thus, the amount realised from assets along with contribution from partners, if required, shall be utilised first to pay off the outside liabilities of the firm such as creditors, loans, bank overdraft, bill payables, etc. (it may be noted that secured loans have precedence over the unsecured loans); the balance should be applied to repay loans made by the partners to the firm. (in case the balance amount is not adequate enough to pay off such loans and advances, they are to be paid propartionately). The amount left thereafter is utilised in settlement of capital account balances. Then the surplus if any is divided among partners in their profit sharing ratio.

*Private Debts and Firm's Debts:* Where both the debts of the firm and private debts of a partner co-exist, the following rules, as stated in Section 49 of the Act, shall apply.

(a) The property of the firm shall be applied first in the payment of debts of the firm and then the surplus, if any, shall be divided among the partners as per their claims, which can be utilised for payment of their private liabilities.
(b) The private property of any partner shall be applied first in payment of his private debts and the surplus, if any, may be utilised for payment of the firm's debts, in case the firm's liabilities exceed the firm's assets.

It may be noted that the private property of the partner does not include the personal properties of his wife and children. Thus, if the assets of the firm are not adequate enough to pay off firm's liabilities, the partners have to contribute out of their net private assets (private assets minus private liabilities).

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**Inability of a Partner to Contribute Towards Deficiency**

In the context of settlement of accounts among the partners there is still another important aspect to be noted, i.e., when a partner is unable to contribute towards the deficiency of his capital account (the account finally showing a debit balance), he/she is said to be insolvent, and the sum not recoverable is treated as capital loss for the firm. In the absence of any agreement, to the contrary, such a capital loss is to be borne by the remaining solvent partners in accordance with the principle laid down in Garner vs. Murray case, which states that the solvent partners have to bear such loss in the ratio of their capitals as on the date of dissolution. However, the accounting treatment relating to dissolution of partnership on account of insolvency of partners is not being taken up at this stage.

## 4.4 Accounting Treatment

When the firm is dissolved, its books of account are to be closed and the profit or loss arising on realisation of its assets and discharge of liabilities is to be computed. For this purpose, a Realisation Account is prepared to ascertain the net effect (profit or loss) of realisation of assets and payment of liabilities which may be is transferred to partner's capital accounts in their profit sharing ratio. Hence, all assets (other than cash in hand bank balance and fictitious assets, if any), and all external liabilities are transferred to this account. It also records the sale of assets, and payment of liabilities and realisation expenses. The balance in this account is termed as profit or loss on realisation which is transferred to partners' capital accounts in the profit sharing ratio (see figure 4.1).

*Dr.* **Realisation Account** *Cr.*

| *Particulars* | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|
| Intangible Assets | xxx | Bank Loan Mortgage | xxx |
| Land and Building | xxx | Sundry creditors | xxx |
| Plant and Machinery | xxx | Bills payables | xxx |
| Furniture and Fittings | xxx | Bank overdraft | xxx |
| Loan to other parties | xxx | Outstanding expenses | xxx |
| Bills receivables | xxx | Provision for doubtful debts | xxx |
| Sundry debtors | xxx | Cash/Bank (sale of assets) | xxx |
| Cash/Bank (payment of liabilities) | xxx | Partner's capital account (assets taken by the partner) | xxx |
| Cash/Bank (payment of unrecorded liabilities) | xxx | Loss (transferred to partners capital accounts) | xxx |
| Partner's capital account | xxx | Loss (transferred to partners | xxx |
| Investments (liability assumed by the partner) | xxx | Investment Fluctuation Fund | xxx |
| Profit (transferred to partners' capital account's in their profit sharing ratio) | xxx | | |
| **Total** | **xxxxx** | **Total** | **xxxxx** |

**Fig. 4.1:** *Format of Realisation Account*

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**Test your Understanding – II**

**Tick (✓) the Correct Answer**

1. On dissolution of a firm, bank overdraft is transferred to :
   (a) Cash Account
   (b) Bank Account
   (c) Realisation Aaccount
   (d) Partner's capital Account.
2. On dissolution of a firm, partner's loan account is transferred to:
   (a) Realisation Account
   (b) Partner's Capital Account
   (c) Partner's Current Account
   (d) None of the above.
3. After transferring liabilities like creditors and bills payables in the Realisation Account, in the absence of any information regarding their payment, such liabilities are treated as:
   (a) Never paid
   (b) Fully paid
   (c) Partly paid
   (d) None of the above.
4. When realisation expenses are paid by the firm on behalf of a partner, such expenses are debited to:
   (a) Realisation Account
   (b) Partner's Capital Account
   (c) Partner's Loan Account
   (d) None of the above.
5. Unrecorded assets when taken over by a partner are shown in :
   (a) Debit of Realisation Account
   (b) Debit of Bank Account
   (c) Credit of Realisation Account
   (d) Credit of Bank Account.
6. Unrecorded liabilities when paid are shown in:
   (a) Debit of Realisation Account
   (b) Debit of Bank Account
   (c) Credit of Realisation Account
   (d) Credit of Bank Account.
7. The accumulated profits and reserves are transferred to :
   (a) Realisation Account
   (b) Partners' Capital Accounts
   (c) Bank Account
   (d) None of the above.
8. On dissolution of the firm, partner's capital accounts are closed through:
   (a) Realisation Account
   (b) Drawings Account
   (c) Bank Account
   (d) Loan Account.

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***Illustration 1***

Supriya and Monika are partners, who share profit in the ratio of 3:2. Following is the balance sheet as on March 31, 2020.

**Balance Sheet of Supriya and Monika as on March 31, 2020**

| *Liabilities* | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|
| Supriya's Capital | 32,500 | Cash and Bank | | 40,500 |
| Monika's Capital | 11,500 | Stock | | 7,500 |
| Sundry Creditors | 48,000 | Sundry debtors | 21,500 | |
| General Reserve | 13,500 | *Less:* Provision for doubtful debts | 500 | 21,000 |
| | | Fixed Assets | | 36,500 |
| | **1,05,500** | | | **1,05,500** |

The firm was dissolved on March 31, 2020. Close the books of the firm with the following information:

(i) Debtors realised at a discount of 5%,
(ii) Stock realised at Rs.7,000,
(iii) Fixed assets realised at Rs.42,000,
(iv) Realisation expenses of Rs.1,500,
(v) Creditors are paid in full.

Record necessary journal entries at the time of dissolution of a firm.

***Solution***

**Books of Supriya and Monika**
**Realisation Account**

| *Date 2020* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| Mar., 31 | Realisation A/c Dr. | | 65,500 | |
| | To Stock A/c | | | 7,500 |
| | To Sundry Debtors A/c | | | 21,500 |
| | To fixed Assets A/c | | | 36,500 |
| | (Assets transferred to realisation account) | | | |
| 2020 Mar., 31 | Sundry Creditors A/c Dr. | | 48,000 | |
| | Provision for doubtful debts A/c Dr. | | 500 | |
| | To Realisation A/c | | | 48,500 |
| | (Liabilities transferred to Realisation A/c | | | |
| 2020 Mar., 31 | Bank A/c Dr. | | 69,425 | |
| | To Realisation A/c | | | 69,425 |
| | (Assets Realized) | | | |

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| | | | | | |
|---|---|---|---|---|---|
| 2020 | | | | | |
| Mar., 31 | Realisation A/c | Dr. | | 49,500 | |
| | To Bank A/c | | | | 49,500 |
| | (Creditors and realisation expenses paid) | | | | |
| 2020 | | | | | |
| Mar., 31 | Realisation A/c | Dr. | | 2,925 | |
| | To Supriya's Capital A/c | | | | 1,755 |
| | To Monika's Capital A/c | | | | 1,170 |
| | (Realisation Profit transferred to partners' capital account) | | | | |
| 2020 | | | | | |
| Mar., 31 | General Reserve A/c | Dr. | | 13,500 | |
| | To Supriya's Capital A/c | | | | 8,100 |
| | To Monika's Capital A/c | | | | 5,400 |
| | (Profit in realisation transferred to partners' capital accounts) | | | | |
| 2020 | | | | | |
| Mar., 31 | Supriya's Capital A/c | Dr. | | 42,355 | |
| | Monika's Capital A/c | | | 18,070 | |
| | To Bank A/c | | | | 60,425 |
| | (Final accounts due paid to partners) | | | | |

*Working Notes:*

**Books of Supriya and Monika**
**Realisation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Assets transferred: | | | Provision for doubtful debts | | 500 |
| Stock | | 7,500 | Sundry creditors | | 48,000 |
| Sundry debtors | | 21,500 | Bank | | |
| Fixed assets | | 36,500 | Debtors | 20,425 | |
| Bank | | | Stock | 7,000 | |
| Creditors | | 48,000 | Fixed assets | 42,000 | 69,425 |
| Realisation expenses | | 1,500 | | | |
| Profit transferred to: | | | | | |
| Supriya Capital | 1,755 | | | | |
| Monika Capital | 1,170 | 2,925 | | | |
| | | **1,17,925** | | | **1,17,925** |

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**Partners Capital Accounts**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Supriya (Rs.)* | *Monika (Rs.)* | *Date* | *Particulars* | *J.F.* | *Supriya (Rs.)* | *Monika (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Bank | | 42,355 | 18,070 | | Balance b/d | | 32,500 | 11,500 |
| | | | | | | Reserve fund | | 8,100 | 5,400 |
| | | | | | | Realisation (Profit) | | 1,755 | 1,170 |
| | | | **42,355** | **18,070** | | | | **42,355** | **18,070** |

### *4.4.1 Journal Entries*

1. *For transfer of assets*

   All asset accounts excluding cash, bank and the fictitious assets, if any are closed by transfer to the debit of Realisation Account at their book values. It may be noted that sundry debtors are transferred at gross value and the provision for doubtful debts is transferred to the credit side of Realisation Account along with liabilities. The same thing will apply to fixed assets, if provision for depreciation account is maintained.

   Realisation A/c Dr.
   To Assets (Individually) A/c

2. *For transfer of liabilities*

   All external liability accounts including provisions, if any, are closed by transferring them to the credit of Realisation account.

   Liabilities (individually) Dr.
   To Realisation A/c

3. *For sale of assets*

   Bank A/c Dr. ] with the same value
   To Realisation A/c

4. *For an asset taken over by a partner*

   Partner's Capital A/c Dr. ] with the amount assets are taken over
   To Realisation A/c

5. *For payment of liabilities*

   Realisation A/c Dr. ] with the amount at which settled
   To Bank A/c

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*6. For a liability which a partner takes responsibility to discharge*

Ralisation A/c Dr.
To Partner's Capital A/c

7. For settlement with the creditor through transfer of assets when a creditor accepts an asset in full and final settlement of his account, no journal entry needs to be recorded. But, if the creditor accepts an asset only as part payment of his/her dues, the entry will be made for cash payment only. For example, a creditor to whom Rs. 10,000 was due accepts office equipment worth Rs. 8,000 and is paid Rs. 2,000 in cash, the following entry shall be made for the payment of Rs. 2,000 only.

Realisation A/c Dr.
To Bank A/c

However, when a creditor accepts an asset whose value is more than the due amount he/she pay cash to the firm for the difference for which the entry will be:

Bank A/c Dr.
To Realisation A/c

*8. For payment of realisation expenses*

(a) When some expenses are incurred and paid by the firm in the process of realisation of assets and payment of liabilities:

Realisation A/c Dr.
To Bank A/c

(b) When realisation expenses are paid by a partner on behalf of the firm:

Realisation A/c Dr.
To Partner's Capital A/c

(c) When a partner has agreed to bear the realisation expenses:

(i) if payment of realisation expenses is made by the firm

Partner's Capital A/c Dr.
To Bank A/c

(ii) if the partner himself pays the realisation expenses, no entry is required

*Note: In the absence of information about who is paying the expenses, it is implied that expenses are paid by the partner who has agreed to bear expenses.*

*9.* For agreed remuneration to such partner who agrees to undertake the dissolution work.

Realisation A/c Dr.
To Partner's Capital A/c

*10. For realisation of any unrecorded assets including goodwill, if any*

Bank A/c Dr.
To Realisation A/c

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*11. For settlement of any unrecorded liability*

| | | |
|---|---|---|
| Realisation A/c | Dr. | |
| To Bank A/c | | |

*12. For transfer of profit and loss on realisation* (Cr. Balance)

(a) In case of profit on realisation

| | | |
|---|---|---|
| Realisation A/c | Dr. | |
| To Partners' Capital A/c (individually) A/c | | |

(b) In case of loss on realisation

| | | |
|---|---|---|
| Partners' Capital A/c (individually) | Dr. | (Dr. Balance) |
| To Realisation A/c | | |

*13. For settlement of loan by a firm to a partner:*

| | | |
|---|---|---|
| Bank A/c | Dr. | |
| To loan to partners A/c | | |

*14. For transfer of accumulated profits in the form of general reserve to partners' capital accounts in their profit sharing ratio:*

| | | |
|---|---|---|
| General Reserve A/c | Dr. | |
| To Partners' Capital A/c (individually) | | |

*15. For transfer of fictitious assets, if any, to partners' capital accounts in their profit sharing ratio:*

| | | |
|---|---|---|
| Partners' Capital A/c (individually) | Dr. | |
| To Fictitious Asset A/c | | |

*16. For payment of loans due to partners*

| | | |
|---|---|---|
| Partner's Loan A/c | Dr. | |
| To Bank A/c | | |

*17. For settlement of partners' accounts*

If the partner's capital account shows a debit balance after posting of rebount entries firms. He brings in the necessary cash for which the entry will be:

| | | |
|---|---|---|
| Bank A/c | Dr. | |
| To Partner's Capital A/c | | |

The balance is paid to partners whose capital accounts show a credit balance and the following entry is recorded.

| | | |
|---|---|---|
| Partners' Capitals A/cs (individually) | Dr. | |
| To Bank A/c | | |

It may be noted that the aggregate amount finally payable to the partners must equal to the amount available in bank and cash accounts. Thus, all accounts of a firm are closed in case of dissolution.

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### *Illustration 2*

Sita, Rita and Meeta are partners sharing profit and losses in the ratio of 2:2:1 Their balance sheet as on March 31, 2017 is as follows:

**Balance Sheet of Sita, Rita and Meeta as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| General Reserve | | 2,500 | Cash at bank | 2,500 |
| Creditors | | 2,000 | Stock | 2,500 |
| Capitals: | | | Furniture | 1,000 |
| Sita | 5,000 | | Debtors | 2,000 |
| Rita | 2,000 | | Plant and Machinery | 4,500 |
| Meeta | 1,000 | 8,000 | | |
| | | **12,500** | | **12,500** |

They decided to dissolve the business. The following amounts were realised: Plant and Machinery Rs.4,250, Stock Rs.3,500, Debtors Rs.1850, Furniture 750.

Sita agreed to bear all realisation paid by the firm expenses. For the service Sita is paid Rs.60.

Actual expenses on realisation paid by the firm amounted to Rs.450.Creditors paid 2% less. There was an unrecorded assets of Rs.250, which was taken over by Rita at Rs.200.

Prepare the necessary accounts to close the books of the firm.

### *Solution*

**Books of Sita, Rita and Meeta**

*Dr.* **Realisation Account** *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| | | | Creditors | | 2,000 |
| Stock | | 2,500 | Rita's capital | | 200 |
| Furniture | | 1,000 | [Unrecorded assets] | | |
| Debtors | | 2,000 | Bank [assets realised]: | | |
| Plant and Machinery | | 4,500 | Plant and Machinery | 4,250 | |
| Bank [Creditors] | | 1,960 | Debtors | 1,850 | |
| Sita's capital | | 60 | Stock | 3,500 | |
| (realisation expenses] | | | Furniture | 750 | 10,350 |
| Profit transferred to: | | | | | |
| Sita's capital | 212 | | | | |
| Rita's capital | 212 | | | | |
| Meeta's capital | 106 | 530 | | | |
| | | **12,550** | | | **12,550** |

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Dr. **Partner's Capital Accounts** Cr.

| Date 2017 | Particulars | J.F. | Sita (Rs.) | Rita (Rs.) | Meeta (Rs.) | Date 2017 | Particulars | J.F. | Sita (Rs.) | Rita (Rs.) | Meeta (Rs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mar. 31 | Bank | | 450 | | | Mar. 31 | Balance b/d | | 5,000 | 2,000 | 1,000 |
| | Realisation (asset) | | | 200 | | | Reserve fund | | 1,000 | 1,000 | 500 |
| | Bank | | 5,822 | 3,012 | 1,606 | | Realisation [profit] | | 212 | 212 | 106 |
| | | | | | | | Realisation (expenses) | | 60 | — | — |
| | | | **6,272** | **3,212** | **1,606** | | | | **6,272** | **3,212** | **1,606** |

Dr. **Bank Account** Cr.

| Date 2017 | Particulars | J.F. | Amount (Rs.) | Date 2017 | Particulars | J.F. | Amount (Rs.) |
|---|---|---|---|---|---|---|---|
| Mar. 31 | Balance b/d | | 2,500 | Mar. 31 | Realisation (Creditor) | | 1,960 |
| | Realisation (assets realised) | | 10,350 | | Sita's Capital [expenses] | | 450 |
| | | | | | Sita's Capital | | 5,822 |
| | | | | | Rita's Capital | | 3,012 |
| | | | | | Meeta's capital | | 1,606 |
| | | | **12,850** | | | | **12,850** |

### *Illustration 3*

Record journal entries at the time of dissolution of a partnership firm of Vibha, Shobha and Anubha in the following cases:

a) Dissolution expenses amounted to Rs. 6,500.
b) Dissolution expenses Rs. 7,800 were paid by Anubha.
c) Vibha was appointed to look after the dissolution process for which she was given a remuneration of Rs. 12,000
d) Shobha was appointed to look after the dissolution work for which she was allowed a remuneration of Rs.15,000. She agreed to bear dissolution expenses. Actual dissolution expenses paid by her amounted to Rs. 11,800.
e) Anubha was to look after the dissolution process for which she was allowed a remuneration of Rs. 12,000 she also agreed to bear dissolution expenses. Actual expenses Rs. 9,500 were paid by the firm.
f) Anubha looked after the dissolution work for remuneration of Rs. 8,500 and agreed to bear dissolution expenses upto Rs. 6,000. Actual expenses paid by her were Rs. 7,600.
g) Vibha was appointed to look after the dissolution work for which she was allowed a remuneration of Rs. 14,000. She agreed to take over investment

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of the book value of Rs. 13,000 towards payment of her remuneration. Investments have already been transferred to realisation Account.

**Book of Vibha, Shobha and Anubha**

| *Date 2017* | *Particulars* | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|
| (a) | Realisation A/c Dr.<br>To Cash / Bank A/c<br>(Dissolution expense paid by the firm) | | 6,500 | 6,500 |
| (b) | Realisation A/c Dr.<br>To Anubha's Capital A/c<br>(Dissolution Expenses paid by Anubha) | | 7,800 | 7,800 |
| (c) | Realisation A/c Dr.<br>To Vibha's Capital A/c<br>(Remuneration given to Vibha) | | 12,000 | 12,000 |
| (d) | Realisation A/c Dr.<br>To Shobha's Capital A/c<br>(Remuneration allowed to Shobha for looking after dissolution work) | | 15,000 | 15,000 |
| (e) | (i) Realisation A/c Dr.<br>To Anubha's Capital A/c<br>(Remuneration allowed to Anubha) | | 12,000 | 12,000 |
| | (ii) Anubha's Capital A/c Dr.<br>To Cash /Bank A/c<br>(Dissolution expenses paid by the firm and borne by Annubha) | | 9,500 | 9,500 |
| (f) | (i) Realisation A/c Dr.<br>To Anubha's Capital A/c<br>(Remuneration payable to Anubha) | | 8,500 | 8,500 |
| | (ii) Realisation A/c Dr.<br>To Anubha's Capital A/c<br>(Dissolution expenses paid by Anubha on behalf of the firm) | | 1,600 | 1,600 |
| (g) | No Entry | | | |

### *llustration 4*

Nayana and Arushi were partners sharing profits equally Their Balance Sheet as on March 31, 2020 was as follows:

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**Balance Sheet of Nayana and Arushi as on March 31, 2020**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capitals: | | | Bank | 30,000 |
| Nayana | 1,00,000 | | Debtors | 25,000 |
| Arushi | 50,000 | 1,50,000 | Stock | 35,000 |
| Creditors | | 20,000 | Furniture | 40,000 |
| Arushi's current account | | 10,000 | Machinery | 60,000 |
| Workmen Compensation Reserve | | 15,000 | Nayana's current account | 10,000 |
| Bank overdraft | | 5,000 | | |
| | | **2,00,000** | | **2,00,000** |

The firm was dissolved on the above date:

1. Nayana took over 50% of the stock at 10% less on its book value, and the remaining stock was sold at a gain of 15%. Furniture and Machinery realised for Rs.30,000 and Rs.50,000 respectively;
2. There was an unrecorded investment which was sold for Rs. 34,000;
3. Debtors realised 90% only and Rs.1,200 were recovered for bad debts written-off last year;
4. There was an outstanding bill for repairs which had to be paid for Rs.2,000.

Record necessary journal entries and prepare ledger accounts to close the books of the firm.

***Solution***

**Books of Nayana and Arushi**
**Journal**

| *Date 2020* | *Particulars* | | *L.F.* | *Debit Amount (Rs.)* | *Credit Amount (Rs.)* |
|---|---|---|---|---|---|
| | Realisation A/c | Dr. | | 1,60,000 | |
| | To Debtors | | | | 25,000 |
| | To Stock A/c | | | | 35,000 |
| | To Furniture A/c | | | | 40,000 |
| | To Machinery A/c | | | | 60,000 |
| | (Assets transferred to Realisation Account) | | | | |
| | Creditors A/c | Dr. | | 20,000 | |
| | Bank overdraft A/c | Dr. | | 5,000 | |
| | To Realisation A/c | | | | 25,000 |
| | (Liabilities transferred to Realisation Account) | | | | |
| | Realisation A/c | Dr. | | 27,000 | |
| | To Bank A/c | | | | 27,000 |
| | (Creditors, Bank overdraft, Outstanding repair bill paid) | | | | |

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| | | | | |
|---|---|---|---|---|
| Bank A/c | Dr. | | 1,57,825 | |
| To Realisation A/c | | | | 1,57,825 |
| (Assets sold and bad debts recovered) | | | | |
| Nayana's Current A/c | Dr. | | 15,750 | |
| To Realisation A/c | | | | 15,750 |
| (Half stock take over by Nayana at 10% less) | | | | |
| Realisation A/c | Dr. | | 15,575 | |
| To Nayana's Current A/c | | | | 5,788 |
| To Arushi's Current A/c | | | | 5,787 |
| (Realisation profit transferred to partner's current account) | | | | |
| Workman Compensation Reserve A/c | Dr. | | 15,000 | |
| To Nayana's Current A/c | | | | 7,500 |
| To Arushi's Current A/c | | | | 7,500 |
| (Compensation fund transfered to partners' Current account) | | | | |
| Arushi Current A/c | Dr. | | 23,287 | |
| To Arushi's Capital A/c | | | | 23,287 |
| (Current account balance transferred to Capital account) | | | | |
| Nayana Capital A/c | Dr. | | 12,462 | |
| To Nayana's Current A/c | | | | 12,462 |
| (Current account balance transferred to Capital account) | | | | |
| Nayana's Capital A/c | Dr. | | 87,538 | |
| Arushi's Capital A/c | Dr. | | 73,287 | |
| To Bank A/c | | | | 1,60,825 |
| (Final amounts due to partners paid) | | | | |

**Realisation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| | | | Creditors | | 20,000 |
| Debtors | 25,000 | | Bank overdraft | | 5,000 |
| Stock | 35,000 | | Bank: | | |
| Furniture | 40,000 | | Investment | 34,000 | |
| Machinery | 60,000 | 1,60,000 | Furniture | 30,000 | |
| Bank: | | | Machinery | 50,000 | |
| Creditors | 20,000 | | Debtors (90%) | 22,500 | |
| Bank overdraft | 5,000 | | Stock : | 20,125 | |
| Outstanding bill | 2,000 | 27,000 | Bad debts | | |
| Profit transferred to : | | | recovered | 1,200 | 1,57,825 |
| Nayana's capital | 5,788 | | Nayana's capital | | |
| Arushi's capital | 5,787 | 11,575 | (stock taken over) | | 15,750 |
| | | **1,98,575** | | | **1,98,575** |

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**Partners' Current Accounts**

*Dr.* *Cr.*

| *Date 2020* | *Particulars* | *J.F.* | *Nayana (Rs.)* | *Arushi (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Nayana (Rs.)* | *Arushi (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Balance b/d | | 10,000 | | | Balance b/d | | | 10,000 |
| | Realisation | | 15,750 | | | Workmen | | 7,500 | 7,500 |
| | Arushi's capital | | | 23,287 | | Compensation | | | |
| | | | | | | Reserve | | | |
| | | | | | | Realisation (profit) | | 5,788 | 5,787 |
| | | | | | | Nayana's Capital | | 12,462 | |
| | | | **25,750** | **23,287** | | | | **25,750** | **23,287** |

**Partner's Capital Accounts**

*Dr.* *Cr.*

| *Date 2020* | *Particulars* | *J.F.* | *Nayana (Rs.)* | *Arushi (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Nayana (Rs.)* | *Arushi (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Nayana's current account | | 12,462 | | | Balance b/d | | 1,00,000 | 50,000 |
| | | | | | | Arushi's | | | 23,287 |
| | Bank | | 87,538 | 73,287 | | current account | | | |
| | | | **1,00,000** | **73,287** | | | | **1,00,000** | **73,287** |

**Bank Account**

*Dr.* *Cr.*

| *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 30,000 | | Realisation | | 27,000 |
| | Realisation | | 1,57,825 | | Nayana's capital | | 87,538 |
| | | | | | Arushi's capital | | 73,287 |
| | | | **1,87,825** | | | | **1,87,825** |

**Test your Understanding – III**

**Fill in the Correct Word(s):**

1. All assets (except cash/bank and fictitious assets) are transferred to the ———— (Debit/Credit) side of ———— Account (Realisation/Capital).
2. All ———— (internal/external) liabilities are transferred to the ———— (Debit/Credit) side of ————acccount (Bank/Realisation).
3. Accumulated losses are transferred to ———— (Realisation/Capital Accounts) in ———— (equal ratio/profit sharing ratio).
4. If a liability is assumed by a partner, such Partner's Capital Account is ———— (debited/credited).
5. If a partner takes over an asset, such (Partner's Capital Account) is ———— (debited/credited).
6. No entry is required when a ———— (partner/creditor) accepts a fixed asset in payment of his dues.

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7. When creditor accepts an asset whose value is much more than the amount due to him, he will ———————— (pay/not pay) the excess amount which will be credited ———————— Account.
8. When the firm has agreed to pay the partner a fixed amount for realisation work irrespective of the actual amount spent, such fixed amount is debited to (Realisation/Capital) Account and Credited to (Capital/Bank) Account.
9. Partner's loan is ———————— (transfered/not transfered) in the (Realisation Account).
10. Partner's current accounts are transferred to respective ———————— Partners' (Loan/Capital) Accounts.

### *Illustration 5*

Following is the Balance Sheet of Ashwani and Bharat on March 31, 2017.

**Balance Sheet Ashwani and Bharat as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Creditors | | 76,000 | Cash at bank | | 17,000 |
| Mrs.Ashwani's loan | | 10,000 | Stock | | 10,000 |
| Mrs.Bharat loan | | 20,000 | Investments | | 20,000 |
| Investment fluctuation reserve | | 2,000 | Debtors | 40,000 | |
| General Reserve | | 20,000 | *Less:* Provision | | |
| Capitals: | | | for doubtful debts | 4,000 | 36,000 |
| Ashwani | 20,000 | | Buildings | | 70,000 |
| Bharat | 20,000 | 40,000 | Goodwill | | 15,000 |
| | | **1,68,000** | | | **1,68,000** |

The firm was dissolved on that date. The following was agreed transactions took place.

(i) Aswhani promised to pay Mrs. Ashwani's loan and took away stock for Rs.8,000.

(ii) Bharat took away half of the investment at 10% less. Debtors realised for Rs.38,000. Creditor's were paid at less of Rs.380. Buildings realised for Rs.1,30,000, Goodwill Rs.12,000 and the remaining Investment were sold at Rs.9,000. An old typewriter not recorded in the books was taken over by Bharat for Rs. 600. Realisation expenses amounted to Rs. 2,000.

Prepare Realisation Account, Partner's Capital Account and Bank Account.

### *Solution*

**Books of Ashwani and Bharat**

*Dr.* **Realisation Account** *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|---|
| Investment | 20,000 | | Provision for doubtful debts | 4,000 |
| Debtors | 40,000 | | Creditors | 76,000 |
| Buildings | 70,000 | | Mrs. Ashwani loan | 10,000 |
| Stock | 10,000 | | Mrs. Bharat loan | 20,000 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| Goodwill | 15,000 | 1,55,000 | Investment fluctuation reserve | | 2,000 |
| Ashwani's Capital | | 10,000 | Ashwani's Capital[stock] | | 8,000 |
| (Mrs.Ashwani's loan} | | | Bharat's capital (Typewriter) | | 600 |
| Bank (Mrs. Bharat's loan) | | 20,000 | Bharat's capital (Investment) | | 9,000 |
| Bank (creditors) | | 75,620 | Bank: | | |
| Bank (realisation expenses) | | 2,000 | Investment | 9,000 | |
| Profit transferred to: | | | Debtors | 38,000 | |
| Ashwani's Capital | 27,990 | | Buildings | 1,30,000 | |
| Bharat's Capital | 27,990 | 55,980 | Goodwill | 12,000 | 1,89,000 |
| | | **3,18,600** | | | **3,18,600** |

**Partner's Capital Accounts**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Ashwani (Rs,)* | *Bharat (Rs,)* | *Date 2017* | *Particulars* | *J.F.* | *Ashwani (Rs,)* | *Bharat (Rs,)* |
|---|---|---|---|---|---|---|---|---|---|
| | Realisation | | | | | Balance b/d | | 20,000 | 20,000 |
| | (stock) | | 8,000 | — | | General reserve | | 10,000 | 10,000 |
| | Realisation | | | | | Realisation | | 10,000 | — |
| | [sale of typewriter] | | | 600 | | [Mrs. Ashwini's | | | |
| | Realisation | | | | | loan] | | | |
| | [investment] | | | 9,000 | | Realisation (profit) | | 27,990 | 27,990 |
| | Bank | | 59,990 | 48,390 | | | | | |
| | | | **67,990** | **57,990** | | | | **67,990** | **57,990** |

**Bank Account**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 17,000 | | Realisation [creditors] | | 75,620 |
| | Realisation | | 1,89,000 | | Realisation [expenses] | | 2,000 |
| | | | | | Realisation | | |
| | | | | | (Mrs.Bharat's loan) | | 20,000 |
| | | | | | Ashwani's capital | | 59,990 |
| | | | | | Bharat's capital | | 48,390 |
| | | | **2,06,000** | | | | **2,06,000** |

**Do it Yourself**

Give the journal entry(ies) to be recorded for the following, in case of the dissolution of a partnership firm.

1. For closure of assets accounts.
2. For closure of liabilities accounts.
3. For sale of assets.
4. For settlement of a creditor by transfer of fixed assets to him.
5. For expenses of realisation when actual expenses are paid by the partner on behalf of the firm.
6. When a partner discharges the liability of the firm.
7. For payment of partner's loan.
8. For settlement of capital accounts.

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### *Illustration 6*

Sonia, Rohit and Udit are partners sharing profits in the ratio of 5:3:2. Their Balance Sheet as on March 31, 2017 was as follows:

**Balance Sheet of Sonia, Rohit and Udit as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | | 30,000 | Buildings | 2,00,000 |
| Bills payable | | 30,000 | Machinery | 40,000 |
| Bank loan | | 1,20,000 | Stock | 1,60,000 |
| Sonia's husband's loan | | 1,30,000 | Bills receivable | 1,20,000 |
| General reserve | | 80,000 | Furniture | 80,000 |
| Capitals: | | | Cash at bank | 60,000 |
| Sonia | 70,000 | | | |
| Rohit | 90,000 | | | |
| Udit | 1,10,000 | 2,70,000 | | |
| | | **6,60,000** | | **6,60,000** |

The firm was dissolved on that date. Close the books of the firm with following information:

1. Buildings realised for Rs.1,90,000, Bills receivable realised for Rs.1,10,000; Stock realised Rs.1,50,000; and Machinery sold for Rs.48,000 and furniture for Rs. 75,000,
2. Bank loan was settled for Rs.1,30,000. Creditors and Bills payable were settled at 10% discount,
3. Rohit paid the realisation expenses of Rs.10,000 for which he paid Rs.12,000 for completing the dissolution process.

Prepare necessary ledger accounts.

### *Solution*

**Books of Sonia, Rohit and Udit**

*Dr.* **Realisation Account** *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Buildings | 2,00,000 | | Creditors | | 30,000 |
| Machinery | 40,000 | | Bills payable | | 30,000 |
| Stock | 1,60,000 | | Bank loan | | 1,20,000 |
| Bills receivable | 1,20,000 | | Sonia's husband's loan | | 1,30,000 |
| Furniture | 80,000 | 6,00,000 | Bank: | | |
| Bank (Bank Loan) | | 1,30,000 | Buildings | 1,90,000 | |
| Bank [creditors and Bills payable] | | 54,000 | Bills receivable | 1,10,000 | |
| Bank [Sonia's husbands loan] | | 1,30,000 | Stock | 1,50,000 | |
| Rohit's capital (reslisation expenses) | | 12,000 | Machinery | 48,000 | |
| | | | Furniture | 75,000 | 5,73,000 |
| | | | Loss transferred to capital accounts: | | |
| | | | Sonia | 21,500 | |
| | | | Rohit | 12,900 | |
| | | | Udit | 8,600 | 43,000 |
| | | **9,26,000** | | | **9,26,000** |

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**Partner's Capital Accounts**

*Dr.* *Cr.*

| Date 2017 | Particulars | J.F. | Sonia (Rs.) | Rohit (Rs.) | Udit (Rs.) | Date 2017 | Particulars | J.F. | Sonia (Rs.) | Rohit (Rs.) | Udit (Rs.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Realisation (Loss) | | 21,500 | 12,900 | 8,600 | | Balance b/d | | 70,000 | 90,000 | 1,10,000 |
| | Bank | | 88,500 | 1,13,100 | 1,17,400 | | Realisation (renumaration) | | — | 12,000 | — |
| | | | | | | | General reserve | | 40,000 | 24,000 | 16,000 |
| | | | **1,10,000** | **1,26,000** | **1,26,000** | | | | **1,10,000** | **1,26,000** | **1,26,000** |

**Bank Account**

*Dr.* *Cr.*

| Date 2017 | Particulars | J.F. | Amount (Rs.) | Date 2017 | Particulars | J.F. | Amount (Rs.) |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 60,000 | | Realisation [bank loan] | | 1,30,000 |
| | Realisation (assets realised) | | 5,73,000 | | Realisation [creditors and bills payable] | | 54,000 |
| | | | | | Realisation (Sonia's husband loan) | | 1,30,000 |
| | | | | | Sonia's capital | | 88,500 |
| | | | | | Rohit's capital | | 1,13,100 |
| | | | | | Udit's capital | | 1,17,400 |
| | | | **6,33,000** | | | | **6,33,000** |

*Note:* No entry has been recorded in firm's books for the actual realisation expenses incurred by Rohit because he gets Rs. 12,000 as his remuneration which has been duly accounted for.

### *Illustration 7*

Romesh and Bhawan were in partnership sharing profit and losses as 3:2. Their Balance Sheet as on March 31, 2017, was as follows:

**Balance Sheet of Romesh and Bhawan as on March 31, 2014**

| Liabilities | | Amount (Rs.) | Assets | Amount (Rs.) |
|---|---|---|---|---|
| Bank loan | | 60,000 | Cash at bank | 30,000 |
| Creditors | | 80,000 | Debtors | 70,000 |
| Bills payables | | 40,000 | Stock | 2,00,000 |
| Bhawan loan | | 20,000 | Investments | 1,40,000 |
| Capitals: | | | Buildings | 60,000 |
| Romesh | 1,00,000 | | | |
| Bhawan | 2,00,000 | 3,00,000 | | |
| | | **5,00,000** | | **5,00,000** |

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They decided to dissolve the firm. The following information is available:

1. Debtors were recovered 5% less. Stock was realised at books value and building was sold for Rs.51,000,
2. It is found that investment not recorded in the books amounted to Rs.10,000. The same were accepted by one creditor for this amount and other Creditors were paid at a discount of 10%. Bills payable were paid full,
3. Romesh took over some of the Investments at Rs.8,100 (book value less 10%). The remaining investment were taken over by Bhawan at 90% of the book value less Rs.900 discount,
4. Bhawan paid bank loan along with one year interest at 6% p.a,
5. An unrecorded liability of Rs.5,000 was paid.

Close the books of the firm by preparing necessary ledger accounts.

***Solution***

**Books of Romesh and Bhawan**
**Realisation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| | | | Bank loan | | 60,000 |
| Debtors | 70,000 | | Creditors | | 80,000 |
| Stock | 2,00,000 | | Bills payable | | 40,000 |
| Investments | 1,40,000 | | Romesh's Capital (investment) | | 8,100 |
| Buildings | 60,000 | 4,70,000 | Bhawan's Capital (investment) | | 1,17,000 |
| Bank (bills payable) | | 40,000 | Bank: | | |
| Bank (creditors) | | 63,000 | Debtors | 66,500 | |
| Bhawan's capital | | 63,600 | Stock | 2,00,000 | |
| (loan with interest) | | | Buildings | 51,000 | 3,17,500 |
| Bank (unrecorded liability) | | 5,000 | Loss transferred to : | | |
| | | | Romesh capital | 11,400 | |
| | | | Bhawan capital | 7,600 | 19,000 |
| | | **6,41,600** | | | **6,41,600** |

**Partner's Capital Accounts**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Romesh (Rs.)* | *Bhawan (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Romesh (Rs.)* | *Bhawan (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Realisation [investment] | | 8,100 | 1,17,000 | | Balance b/d | | 1,00,000 | 2,00,000 |
| | Realisation [loss] | | 11,400 | 7,600 | | Realisation [bank loan] | | | 63,600 |
| | Bank | | 80,500 | 1,39,000 | | | | | |
| | | | **1,00,000** | **2,63,600** | | | | **1,00,000** | **2,63,600** |

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**Bank Account**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 30,000 | | Realisation[creditor] | | 63,000 |
| | Realisation | | 3,17,500 | | Realisation | | 5,000 |
| | (assets realised) | | | | [unrecorded liability] | | |
| | | | | | Bhawan loan | | 20,000 |
| | | | | | Realisation | | 40,000 |
| | | | | | (bills payable] | | |
| | | | | | Romesh's capital | | 80,500 |
| | | | | | Bhawan's capital | | 1,39,000 |
| | | | **3,47,500** | | | | **3,47,500** |

*Note:* No entry has been made for acceptance of unrecorded investments by a creditor as part payment of his dues as per rules.

### *Illustration 8*

Sonu and Ashu sharing profits as 3:1 and they agree upon dissolution. The Balance Sheet as on March 31, 2017 is as under:

**Balance Sheet of Sonu and Ashu as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Loan | | 12,000 | Cash at bank | 15,000 |
| Creditors | | 18,000 | Stock | 45,000 |
| Capital | | | Furniture | 16,000 |
| Sonu | 1,10,000 | | Debtors | 70,000 |
| Ashu | 68,000 | 1,78,000 | Plant and Machinery | 52,000 |
| | | | Loan to Ashu | 10,000 |
| | | **2,08,000** | | **2,08,000** |

Sonu took over plant and machinery at an agreed value of Rs.60,000. Stock and Furniture were sold for Rs.42,000 and Rs.13,900 respectively. Debtors were taken over by Ashu at Rs.69,000. Creditors were paid subject to discount of Rs.900. Sonu agrees to pay the loans. Realisation expenses were Rs.1,600.

Prepare Realisation Account, Bank Account and Capital Accounts of the Partners.

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***Solution***

**Books of Sonu and Ashu**
**Realisation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Stock | | 45,000 | Loan | | 12,000 |
| Furniture | | 16,000 | Creditors | | 18,000 |
| Debtors | | 70,000 | Sonu's capital | | 60,000 |
| Plant and Machinery | | 52,000 | (plant& machinery) | | |
| Bank (creditors) | | 17,100 | Ashu's capital (debtors) | | 69,000 |
| Sonu's capital (loan) | | 12,000 | Bank: | | |
| Bank (realisation expenses) | | 1,600 | Stock | 42,000 | |
| Profit transferred to : | | | Furniture | 13,900 | 55,900 |
| Sonu's capital | 900 | | | | |
| Ashu's capital | 300 | 1,200 | | | |
| | | **2,14,900** | | | **2,14,900** |

**Partners Capital Accounts**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Sonu (Rs.)* | *Ashu (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Sonu (Rs.)* | *Ashu (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|
| | Realisation [plant and machinery] | | 60,000 | | | Balance b/d | | 1,10,000 | 68,000 |
| | | | | | | Realisation [loan] | | 12,000 | |
| | Realisation [debtors] | | | 69,000 | | Realisation [profit] | | 900 | 300 |
| | | | | | | Bank | | | 700 |
| | Bank | | 62,900 | | | | | | |
| | | | **1,22,900** | **69,000** | | | | **1,22,900** | **69,000** |

**Bank Account**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 15,000 | | Realisation [creditor] | | 17,100 |
| | Realisation (assets realised) | | 55,900 | | Realisation [expenses] | | 1,600 |
| | | | | | Sonu's capital | | 62,900 |
| | Loan to Ashu | | 10000 | | | | |
| | Ashu's capital | | 700 | | | | |
| | | | **81,600** | | | | **81,600** |

***Illustration 9***

Anju, Manju and Sanju sharing profit in the ratio of 3:1:1 decided to dissolve their firm. On March 31, 2017 their position was as follows:

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**Balance Sheet of Anju, Manju and Sanju as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Creditors | | 60,000 | Cash at bank | | 55,000 |
| Loan | | 15,000 | Stock | | 83,000 |
| Capitals: | | | Furniture | | 12,000 |
| Anju | 2,75,000 | | Debtors | 2,42,000 | |
| Manju | 1,10,000 | | *Less:* Provision for | | |
| Sanju | 1,00,000 | 4,85,000 | doubtful debts | 12,000 | 2,30,000 |
| Manju's loan | | 20,000 | Buildings | | 2,00,000 |
| | | **5,80,000** | | | **5,80,000** |

It is agreed that:

1. Anju takes over the Furniture at Rs.10,000 and Debtors amounting to Rs.2,00,000 at Rs.1,85,000. Anju also agrees to pay the creditors,
2. Manju is to take over Stock at book value and Buildings at book value less 10%,
3. Sanju is to take over remaining Debtors at 80% of book value and responsibility for the discharge of the loan,
4. The expenses of dissolution amounted to Rs.2,200.

Prepare Realisation Account, Bank Account and Capital Accounts of the partners.

***Solution***

**Books of Anju, Manju and Sanju**

*Dr.* **Realisation Account** *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Stock | 83,000 | | Provision for doubtful debts | | 12,000 |
| Furniture | 12,000 | | Creditors | | 60,000 |
| Debtors | 2,42,000 | | Loan | | 15,000 |
| Buildings | 2,00,000 | 5,37,000 | Anju's capital : | | |
| Anju capital (creditors) | | 60,000 | Furniture | 10,000 | |
| Sanju capital (loan) | | 15,000 | Debtors | 1,85,000 | 1,95,000 |
| Bank (realisation expenses) | | 2,200 | Manju's capital : | | |
| | | | Stock | 83,000 | |
| | | | Buildings | 1,80,000 | 2,63,000 |
| | | | Sanju's capital : | | |
| | | | (remaning debtors less | | |
| | | | 20% of book value) | | 33,600 |
| | | | Loss transferred to : | | |
| | | | Anju's capital | 21,360 | |
| | | | Manju's capital | 7,120 | |
| | | | Sanju's capital | 7,120 | 35,600 |
| | | **6,14,200** | | | **6,14,200** |

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*Dr.* **Partner's Capital Accounts** *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Anju (Rs.)* | *Manju (Rs.)* | *Sanju (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Anju (Rs.)* | *Manju (Rs.)* | *Sanju (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Realisation (assets) | | 1,95,000 | 2,63,000 | 33,600 | | Balance b/d | | 2,75,000 | 1,10,000 | 1,00,000 |
| | Realisation (loss) | | 21,360 | 7,120 | 7,120 | | Realisation (creditors) | | 60,000 | | |
| | Bank | | 1,18,640 | | 74,280 | | Realisation | | | | 15,000 |
| | | | | | | | Manju loan (loan) | | | 20,000 | |
| | | | | | | | Bank | | | 1,40,120 | |
| | | | **3,35,000** | **2,70,120** | **1,15,000** | | | | **3,35,000** | **2,70,120** | **1,15,000** |

Alternatively, Manju's loan may be first paid through bank account then the amount payable by Manju on account of debit balance in her capital account. Rs. 1,60,120 can be corrected form her.

*Dr.* **Bank Account** *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 55,000 | | Realisation (expenses) | | 2,200 |
| | Manju's capital | | 1,40,120 | | Anju's capital | | 1,18,640 |
| | | | | | Sanju's capital | | 74,280 |
| | | | **1,95,120** | | | | **1,95,120** |

### *Illustration 10*

Sumit, Amit and Vinit are partners sharing profit in the ratio of 5:3:2. Their Balance Sheet as on March 31, 2017 was as follows:

**Balance Sheet of Sunit, Amit and Vinit as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capitals: | | | Machinery | 80,000 |
| Sumit | 40,000 | | Investments | 1,50,000 |
| Amit | 50,000 | | Stock | 10,000 |
| Vinit | 60,000 | 1,50,000 | Debtors | 35,000 |
| Profit and Loss | | 10,000 | Cash at bank | 15,000 |
| Mrs. Amit's loan | | 40,000 | | |
| Sundry creditors | | 90,000 | | |
| | | **2,90,000** | | **2,90,000** |

The firm was dissolved on that date. Amit took over his wife's loan. One of the Creditors for Rs.2,600 was not claim the amount. Assets realised as follows:

1. Machinery was sold for Rs.70,000,
2. Investments with book value of Rs.1,00,000 were given to Creditors in full settlement of their account. The remaining Investments were taken over by Vinit at an agreed value of Rs.45,000,

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3. Stock was sold for Rs.11,000 and Debtors for Rs.3,000 proved to be bad,
4. Realisation expenses were Rs.1,500.

Prepare ledger accounts to close the books of the firm.

***Solution***

**Books of Amit, Sumit and Vinit**
**Realisation Account**

*Dr.* *Cr.*

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Machinery | 80,000 | | Sundry creditors | | 90,000 |
| Investments | 1,50,000 | | Mrs.Amit's loan | | 40,000 |
| Stock | 10,000 | | Bank : | | |
| Debtors | 35,000 | 2,75,000 | Machinery | 70,000 | |
| Amit's Capital (wife's loan) | | 40,000 | Stock | 11,000 | |
| Bank (realisation expenses) | | 1,500 | Debtors | 32,000 | 1,13,000 |
| | | | Vinit's capital (investment) | | 45,000 |
| | | | Loss transferred to : | | |
| | | | Amit's capital | 14,250 | |
| | | | Sumit's capital | 8,550 | |
| | | | Vinit's capital | 5,700 | 28,500 |
| | | **3,16,500** | | | **3,16,500** |

*Dr.* **Partners Capital Accounts** *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amit (Rs.)* | *Sumit (Rs.)* | *Vinit (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amit (Rs.)* | *Sumit (Rs.)* | *Vinit (Rs.)* |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Realisation | | | | 45,000 | | Balance b/d | | 40,000 | 50,000 | 60,000 |
| | Investment | | | | | | Realisation | | | | |
| | Realisation (loss) | | 14,250 | 8,550 | 5,700 | | (Mrs. Amit's loan) | | 40,000 | | |
| | Bank | | 70,750 | 44,450 | 11,300 | | Profit and Loss | | 5,000 | 3,000 | 2,000 |
| | | | **85,000** | **53,000** | **62,000** | | | | **85,000** | **53,000** | **62,000** |

**Bank Account**

*Dr.* *Cr.*

| *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* | *Date 2017* | *Particulars* | *J.F.* | *Amount (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Balance b/d | | 15,000 | | Realisation (expenses) | | 1,500 |
| | Realisation | | 1,13,000 | | Amit's capital | | 70,750 |
| | (assets realised) | | | | Sumit's capital | | 44,450 |
| | | | | | Vinit's capital | | 11,300 |
| | | | **1,28,000** | | | | **1,28,000** |

*Note:* No entry has been made for the investments taken over by the creditors as per rules.

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### *Illustration 11*

Meena and Tina are partners in a firm and sharing profit as 3:2. They decided to dissolve their firm on March 31, 2017 when their Balance Sheet was a follows:

**Balance Sheet Meena and Tina as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capital : | | | Machinery | 70,000 |
| Meena | 90,000 | | Investments | 50,000 |
| Tina | 80,000 | 1,70,000 | Stock | 22,000 |
| Sundry creditors | | 60,000 | Sundry Debtors | 1,03,000 |
| Bills payable | | 20,000 | Cash at bank | 5,000 |
| | | **2,50,000** | | **2,50,000** |

The assets and liabilities were disposed off as follows :

(a) Machinery were given to creditors in full settlement of their account and Stock were given to bills payable in full settlement.

(b) Investment were taken over by Tina at book value. Sundry debtors of book value Rs. 50,000 took over by Meena at 10% less and remaining debtors realised Rs. 51,000.

(c) Realisation expenses amount to Rs. 2,000.

Prepare necessary ledger accounts to close the book of the firm.

### *Solution*

**Books of Meena and Tina – Realisation Account**

| *Particulars* | | *Amount (Rs.)* | *Particulars* | | *Amount (Rs.)* |
|---|---|---|---|---|---|
| Assets transferred : | | | Sundry creditors | | 60,000 |
| Machinery | 70,000 | | Bills payable | | 20,000 |
| Investments | 50,000 | | Tina's Capital (investment) | | 50,000 |
| Stock | 22,000 | | Meena's Capital | | 45,000 |
| Sundry debtors | 1,03,000 | 2,45,000 | Bank (Debtors) | | 51,000 |
| Bank (realisation expenses) | | 2,000 | Loss transferred to : | | |
| | | | Meena's capital | 12,600 | |
| | | | Tena's capital | 8,400 | 21,000 |
| | | **2,47,000** | | | **2,47,000** |

**Partner's Capital Accounts**

*Dr.* *Cr.*

| *Date* | *Particulars* | *Mena (Rs.)* | *Tina (Rs.)* | *Date* | *Particulars* | *Meena ( Rs.)* | *Tina (Rs.)* |
|---|---|---|---|---|---|---|---|
| | Realisation (investment) | | 50,000 | | Balance b/d | 90,000 | 80,000 |
| | Realisation (debtors) | 45,000 | | | | | |
| | Realisation (loss) | 12,600 | 8,400 | | | | |
| | Bank | 32,400 | 21,600 | | | | |
| | | **90,000** | **80,000** | | | **90,000** | **80,000** |

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**Bank Account**

*Dr.* *Cr.*

| *Particulars* | *Amount (Rs.)* | *Particulars* | *Amount (Rs.)* |
|---|---|---|---|
| Balance b/d | 5,000 | Realisation (expenses) | 2,000 |
| Realisation (assets realised) | 51,000 | Mena's capital | 32,400 |
| | | Tina's capital | 21,600 |
| | **56,000** | | **56,000** |

## *Terms Introduced in the Chapter*

- Dissolution of Partnership
- Dissolution of Partnership Firm
- Partnership at Will
- Compulsory Dissolution
- Dissolution by Notice
- Realisation Expenses
- Realisation Account

## *Summary*

1. *Dissolution of Partnership Firm :* The dissolution of a firm implies the discontinuance of partnership business and termination of economic relations between the partners. In the case of a dissolution of a firm, the firm closes its business altogether and realises all its assets and pays all its liabilities. The payment is made to the creditors first out of the assets realised and, if necessary, next out of the contributions made by the partners in their profit sharing ratio. When all accounts are settled and the final payment is made to the partners for the amounts due to them, the books of the firm are closed.
2. *Dissolution of Partnership :* A partnership gets terminated in case of admission, retirement death, etc. of a partner. This does not necessarily involve dissolution of the firm.
3. *Realisation Account :* The Realisation Account is prepared to record the transactions relating to sale and realisation of assets and settlement of creditors. Any profit or loss arising act of this process is shared by partners' in their profit sharing ratio. Partners' accounts are also settled and the Cash or Bank account is closed.

## *Questions for Practice*

**Short Answer Questions**

1. State the difference between dissolution of partnership and dissolution of partnership firm.
2. State the accounting treatment at the time of dissolution of a firm for:
   i. Unrecorded assets ii. Unrecorded liabilities
3. On dissolution, how will you deal with partner's loan if it appears on the (a) assets side of the balance sheet, (b) liabilities side of balance sheet.

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4. Distinguish between firm's debts and partner's private debts.
5. State the order of settlement of accounts on dissolution.
6. On what account realisation account differs from revaluation account.

**Long Answer Questions**

1. Explain the process dissolution of partnership firm?
2. What is a Realisation Account?
3. Reproduce the format of Realisation Account.
4. How deficiency of crditors is paid off at the time of dissolution of firm.

## Numerical Questions

1. Journalise the following transactions regarding realisation expenses :
   [a] Realisation expenses amounted to Rs.2,500.
   [b] Realisation expenses amounting to Rs.3,000 were paid by Ashok, one of the partners.
   [c] Realisation expenses Rs.2,300 borne by Tarun, personally.
   [d] Amit, a partner was appointed to realise the assets, at a cost of Rs.4,000. The actual amount of realisation expenses amounted to Rs.3,000.
2. Record necessary journal entries in the following cases:
   [a] Creditors worth Rs.85,000 accepted Rs.40,000 as cash and Investment worth Rs.43,000, in full settlement of their claim.
   [b] Creditors were Rs.16,000. They accepted Machinery valued at Rs.18,000 in settlement of their claim.
   [c] Creditors were Rs.90,000. They accepted Buildings valued Rs.1,20,000 and paid cash to the firm Rs.30,000.
3. There was an old computer which was written-off in the books of accounts in the pervious year. The same has been taken over by a partner Nitin for Rs.3,000. Journalise the transaction when the firm has been dissolved.
4. What journal entries will be recorded for the following transactions on the dissolution of a firm:
   [a] Payment of unrecorded liabilities of Rs.3,200.
   [b] Stock worth Rs.7,500 is taken over by a partner Rohit.
   [c] Profit on Realisation amounting to Rs.18,000 is to be distributed between the partners Ashish and Tarun in the ratio of 5:7.
   [d] An unrecorded asset realised Rs.5,500.
5. Give journal entries for the following transactions :
   1. To record the realisation of various assets and liabilities,
   2. A Firm has a Stock of Rs. 1,60,000. Aziz, a partner took over 50% of the Stock at a discount of 20%,
   3. Remaining Stock was sold at a profit of 30% on cost,
   4. Land and Buildging (book value Rs. 1,60,000) sold for Rs. 3,00,000 through a broker who charged 2%, commission on the deal,
   5. Plant and Machinery (book value Rs. 60,000) was handed over to a Creditor at an agreed valuation of 10% *less* than the book value,
   6. Investment whose face value was Rs. 4,000 was realised at 50%.

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6. How will you deal with the realisation expenses of the firm of Rashim and Bindiya in the following cases:
   1. Realisation expenses amount to Rs. 1,00,000,
   2. Realisation expenses amounting to Rs. 30,000 are paid by Rashim, a partner.
   3. Realisation expenses are to be borne by Rashim and he will be paid Rs. 70,000 as remuneration for completing the dissolution process. The actual expenses incurred by Rashim were Rs. 1,20,000.

7. The book value of assets (other than cash and bank) transferred to Realisation Account is Rs. 1,00,000. 50% of the assets are taken over by a partner Atul, at a discount of 20%; 40% of the remaining assets are sold at a profit of 30% on cost; 5% of the balance being obsolete, realised nothing and remaining assets are handed over to a Creditor, in full settlement of his claim.
   You are required to record the journal entries for realisation of assets.

8. Record necessary journal entries to realise the following unrecorded assets and liabilities in the books of Paras and Priya:
   1. There was an old furniture in the firm which had been written-off completely in the books. This was sold for Rs. 3,000,
   2. Ashish, an old customer whose account for Rs. 1,000 was written-off as bad in the previous year, paid 60%, of the amount,
   3. Paras agreed to takeover the firm's goodwill (not recorded in the books of the firm), at a valuation of Rs. 30,000,
   4. There was an old typewriter which had been written-off completely from the books. It was estimated to realise Rs. 400. It was taken away by Priya at an estimated price less 25%,
   5. There were 100 shares of Rs. 10 each in Star Limited acquired at a cost of Rs. 2,000 which had been written-off completely from the books. These shares are valued @ Rs. 6 each and divided among the partners in their profit sharing ratio.

9. All partners wish to dissolve the firm. Yastin, a partner wants that her loan of Rs. 2,00,000 must be paid off before the payment of capitals to the partners. But, Amart, another partner wants that the capitals must be paid before the payment of Yastin's loan. You are required to settle the conflict giving reasons.

10. What journal entries would be recorded for the following transactions on the dissolution of a firm of Arti and Karim after various assets (other than cash) on the third party liabilities have been transferred to Reliasation account.
    1. Arti took over the Stock worth Rs. 80,000 at Rs. 68,000.
    2. There was unrecorded Bike of Rs. 40,000 which was taken over by Mr. Karim.
    3. The firm paid Rs. 40,000 as compensation to employees.
    4. Sundry creditors amounting to Rs. 36,000 were settled at a discount of 15%.
    5. Loss on realisation Rs. 42,000 was to be distributed between Arti and Karim in the ratio of 3:4.

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11. Rose and Lily shared profits in the ratio of 2:3. Their Balance Sheet on March 31, 2017 was as follows:

**Balance Sheet of Rose and Lily as on March 31, 2017**

| *Liabilities* | *Amount (Rs.)* | *Assets* | | *Amount (Rs.)* |
|---|---|---|---|---|
| Creditors | 40,000 | Cash | | 16,000 |
| Lily's loan | 32,000 | Debtors | 80,000 | |
| Profit and Loss | 50,000 | *Less*: Provision for | | |
| *Capitals:* | | doubtful debts | 3,600 | 76,400 |
| Lily | 1,60,000 | Inventory | | 1,09,600 |
| Rose | 2,40,000 | Bills receivable | | 40,000 |
| | | Buildings | | 2,80,000 |
| | **5,22,000** | | | **5,22,000** |

Rose and Lily decided to dissolve the firm on the above date. Assets (except bills receivables) realised Rs. 4,84,000. Creditors agreed to take Rs. 38,000. Cost of realisation was Rs. 2,400. There was a Motor Cycle in the firm which was bought out of the firm's money, was not shown in the books of the firm. It was now sold for Rs. 10,000. There was a contingent liability in respect of outstanding electric bill of Rs. 5,000 which was paid Bill Receivable taken over by Rose at Rs. 33,000.

Show Realisation Account, Partners Capital Acount, Loan Account and Cash Account.

(**Ans :** Realisation Profit Rs. 15,600, Total of Cash Account Rs. 5,10,000, Lily's capital Rs. 1,99,360, Rose's capital Rs. 2,33,240).

12. Shilpa, Meena and Nanda decided to dissolve their partnership on March 31,2017. Their profit sharing ratio was 3:2:1 and their Balance Sheet was as under:

**Balance Sheet of Shilpa, Meena and Nanda as on March 31, 2017**

| *Liabilities* | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|
| Capitals: | | Land | 81,000 |
| Shilpa | 80,000 | Stock | 56,760 |
| Meena | 40,000 | Debtors | 18,600 |
| Bank loan | 20,000 | Nanda's capital | 23,000 |
| Creditors | 37,000 | Cash | 10,840 |
| Provision for doubtful debts | 1,200 | | |
| General reserve | 12,000 | | |
| | **1,90,200** | | **1,90,200** |

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The stock of value of Rs. 41,660 are taken over by Shilpa for Rs. 35,000 and she agreed to discharge bank loan. The remaining stock was sold at Rs. 14,000 and debtors amounting to Rs. 10,000 realised Rs. 8,000. land is sold for Rs. 1,10,000. The remaining debtors realised 50% at their book value. Cost of realisation amounted to Rs. 1,200. There was a typewriter not recorded in the books worth Rs. 6,000 which were taken over by one of the Creditors at this value. Prepare Realisation Account.
(**Ans :** Profit on Realisation Rs. 20,940).

13. Surjit and Rahi were sharing profits (losses) in the ratio of 3:2, their Balance Sheet as on March 31, 2017 is as follows:

**Balance Sheet of Surjit and Rahi as on March 31, 2017**

| *Liabilities* | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|
| Creditors | 38,000 | Bank | 11,500 |
| Mrs. Surjit loan | 10,000 | Stock | 6,000 |
| Reserve | 15,000 | Debtors | 19,000 |
| Rahi's loan | 5,000 | Furniture | 4,000 |
| Capital's: | | Plant | 28,000 |
| Surjit | 10,000 | Investment | 10,000 |
| Rahi | 8,000 | Profit and Loss | 7,500 |
| | **86,000** | | **86,000** |

The firm was dissolved on March 31, 2017 on the following terms:
1. Surjit agreed to take the investments at Rs. 8,000 and to pay Mrs. Surojit's loan.
2. Other assets were realised as follows:
   Stock Rs. 5,000
   Debtors Rs. 18,500
   Furniture Rs. 4,500
   Plant Rs. 25,000
3. Expenses on realisation amounted to Rs. 1,600.
4. Creditors agreed to accept Rs. 37,000 as a final settlement.
   You are required to prepare Realisation account, Partner's Capital account and Bank account.

(**Ans :** Loss on Realisation Rs. 6,600, Total of Bank Account Rs. 64,500, Amount paid to Surjit Rs. 12,540, Rahi Rs. 8,360).

14. Rita, Geeta and Ashish were partners in a firm sharing profits/losses in the ratio of 3:2:1. On March 31, 2017 their balance sheet was as follows:

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capitals: | | | Cash | 22,500 |
| Rita | 80,000 | | Debtors | 52,300 |
| Geeta | 50,000 | | Stock | 36,000 |
| Ashish | 30,000 | 1,60,000 | Investments | 69,000 |
| Creditors | | 65,000 | Plant | 91,200 |
| Bills payable | | 26,000 | | |
| General reserve | | 20,000 | | |
| | | **2,71,000** | | **2,71,000** |

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On the date of above mentioned date the firm was dissolved:

1. Rita was appointed to realise the assets. Rita was to receive 5% commission on the sale of assets (except cash) and was to bear all expenses of realisation,
2. Assets were realised as follows:

| | *Rs.* |
|---|---|
| Debtors | 30,000 |
| Stock | 26,000 |
| Plant | 42,750 |

3. Investments were realised at 85% of the book value,
4. Expenses of realisation amounted to Rs. 4,100,
5. Firm had to pay Rs. 7,200 for outstanding salary not provided for earlier,
6. Contingent liability in respect of bills discounted with the bank was also materialised and paid off Rs. 9,800,

Prepare Realisation account, Capital Accounts of Partner's and Cash Account.

(**Ans :** Loss on Realisation Rs. 1,15,970, Total of Cash Account Rs. 1,79,900; Amount paid to Rita Rs. 39,885, Geeta Rs. 18,010).

15. Anup and Sumit are equal partners in a firm. They decided to dissolve the parntership on March 31, 2017. When the balance sheet is as under:

**Balance Sheet of Anup and Sumit as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 27,000 | Cash at bank | 11,000 |
| General Reserve | | 10,000 | Sundry Debtors | 12,000 |
| Loan | | 40,000 | Plants | 47,000 |
| Capital | | | Stock | 42,000 |
| Anup | 60,000 | | Lease hold land | 60,000 |
| Sumit | 60,000 | 1,20,000 | Furniture | 25,000 |
| | | **1,97,000** | | **1,97,000** |

The Assets were realised as follows:

| | *Rs.* |
|---|---|
| Lease hold land | 72,000 |
| Furniture | 22,500 |
| Stock | 40,500 |
| Plant | 48,000 |
| Sundry Debtors | 10,500 |

The Creditors were paid Rs. 25,500 in full settlement. Expenses of realisation amount to Rs. 2,500.

Prepare Realisation Account, Bank Account, Partners Capital Accounts to close the books of the firm.

(**Ans :** Realisation Profit Rs. 6,500; Total of Bank Account Rs. 2,04,500, Amount paid to Anup Rs. 68,250, Sumit Rs. 68,250).

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16. Ashu and Harish are partners sharing profit and losses as 3:2. They decided to dissolve the firm on March 31, 2017. Their balance sheet on the above date was:

**Balance Sheet of Ashu and Harish as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capitals: | | | Building | 80,000 |
| Ashu | 1,08,000 | | Machinery | 70,000 |
| Harish | 54,000 | 1,62,000 | Furniture | 14,000 |
| Creditors | | 88,000 | Stock | 20,000 |
| Bank overdraft | | 50,000 | Investments | 60,000 |
| | | | Debtors | 48,000 |
| | | | Cash in hand | 8,000 |
| | | **3,00,000** | | **3,00,000** |

Ashu is to take over the building at Rs. 95,000 and Machinery and Furniture is take over by Harish at value of Rs. 80,000. Ashu agreed to pay Creditor and Harish agreed to meet Bank overdraft. Stock and Investments are taken by both partner in profit sharing ratio. Debtors realised for Rs. 46,000, expenses of realisation amounted to Rs. 3,000. Prepare necessary ledger account.

(**Ans :** Profit on Realisation Rs. 6,000, Cash/Bank Total Rs. 59,600; Paid to Ashu Rs. 56,600, paid to Harish Rs. 5,600)

17. Sanjay, Tarun and Vineet shared profit in the ratio of 3:2:1. On march 31, 2017 their balance sheet was as follows:

**Balance Sheet of Sanjay, Tarun and Vineet as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Capitals: | | | Plant | 90,000 |
| Sanjay | 1,00,000 | | Debtors | 60,000 |
| Tarun | 1,00,000 | | Furniture | 32,000 |
| Vineet | 70,000 | 2,70,000 | Stock | 60,000 |
| Creditors | | 80,000 | Investments | 70,000 |
| Bills payable | | 30,000 | Bills receivable | 36,000 |
| | | | Cash in hand | 32,000 |
| | | **3,80,000** | | **3,80,000** |

On this date the firm was dissolved. Sanjay was appointed to realise the assets. Sanjay was to receive 6% commission on the sale of assets (except cash) and was to bear all expenses of realisation.
Sanjay realised the assets as follows : Plant Rs. 72,000, Debtors Rs. 54,000, Furniture Rs. 18,000, Stock 90% of the book value, Investments Rs. 76,000 and Bills receivable Rs.31,000. Expenses of realisation amounted to Rs.4,500. Prepare Realisation Account, Capital Accounts and Cash Account

(**Ans :** Loss on Realisation Rs.61,300, Total of Cash Account Rs.3,37,000; Amount paid to Sanjay Rs. 87,650, Tannu Rs. 79,567, Vineet Rs. 59,783).

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18. The following is the Balance Sheet of Gupta and Sharma as on March 31,2017:

**Balance Sheet of Gupta and Sharma as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 38,000 | Cash at bank | 12,500 |
| Mrs.Gupta's loan | | 20,000 | Sundry Debtors | 55,000 |
| Mrs.Sharma's loan | | 30,000 | Stock | 44,000 |
| General Reserve | | 6,000 | Bills receivable | 19,000 |
| Provision of doubtful debts | | 4,000 | Machinery | 52,000 |
| Capital | | | Investment | 38,500 |
| Gupta | 90,000 | | Fixtures | 27,000 |
| Sharma | 60,000 | 1,50,000 | | |
| | | **2,48,000** | | **2,48,000** |

The firm was dissolved on December 31, 2017 and asset realised and settlements of liabilities as follows:

(a) The realisation of the assets were as follows:

| | Rs. |
|---|---|
| Sundry Debtors | 52,000 |
| Stock | 42,000 |
| Bills receivable | 16,000 |
| Machinery | 49,000 |
| Fixtures | 20,000 |

(b) Investment was taken over by Gupta at agreed value of Rs.36,000 and agreed to pay of Mrs. Gupta's loan.

(c) The Sundry Creditors were paid off *less* 3% discount.

(d) The realisation expenses incurred amounted to Rs.1,200.

Journalise the entries to be made on the dissolution and prepare Realisation Account, Bank Account and Partners Capital Accounts.

(**Ans :** Loss on Realisation Rs.36,560, Total of Bank Account; Rs. 1,91,500; Amount paid to Gupta Rs. 68,720, Sharma, Rs. 54,720)

19. Ashok, Babu and Chetan are in partnership sharing profit in the proportion of 1/2, 1/3, 1/6 respectively. They dissolve the partnership of the December 31, 2017, when the balance sheet of the firm as under:

**Balance Sheet of Ashok, Babu and Chetan as on December 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 20,000 | Bank | 7,500 |
| Bills payable | | 25,500 | Sundry Debtors | 58,000 |
| Chetan's loan | | 30,000 | Stock | 39,500 |
| Capital's : | | | Machinery | 48,000 |
| Ashok | 70,000 | | Investment | 42,000 |
| Babu | 55,000 | | Freehold property | 50,500 |
| Chetan | 27,000 | 1,52,000 | | |
| Current accounts : | | | | |
| Ashok | 10,000 | | | |
| Babu | 5,000 | | | |
| Chetan | 3,000 | 18,000 | | |
| | | **2,45,500** | | **2,45,500** |

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The machinery was taken over by Babu for Rs.45,000, Ashok took over the Investment for Rs.40,000 and Freehold property took over by Chetan at Rs.55,000. The remaining Assets realised as follows: Sundry Debtors Rs.56,500 and Stock Rs.36,500. Sundry Creditors were settled at discount of 7%. A Office computer, not shown in the books of accounts realised Rs.9,000. Realisation expenses amounted to Rs.3,000.

Prepare Realisation Account, Partners Capital Account, Bank Account.

(**Ans :** Profit on Realisation Rs.2,400, Total of Cash Account Rs.1,34,100; Amount paid to Ashok Rs. 41,800, Babu Rs. 15,800, Amount paid towards Chetan's loan Rs. 5,400)

20. The following is the Balance sheet of Tanu and Manu, who shares profit and losses in the ratio of 5:3, On March 31, 2017:

**Balance Sheet of Tanu and Manu as on March 31, 2017**

| *Liabilities* | | *Amount (Rs.)* | *Assets* | *Amount (Rs.)* |
|---|---|---|---|---|
| Sundry Creditors | | 62,000 | Cash at bank | 16,000 |
| Bills payable | | 32,000 | Sundry Debtors | 55,000 |
| Bank loan | | 50,000 | Stock | 75,000 |
| General Reserve | | 16,000 | Motor car | 90,000 |
| Capital | | | Machinery | 45,000 |
| Tanu | 1,10,000 | | Investment | 70,000 |
| Manu | 90,000 | 2,00,000 | Fixtures | 9,000 |
| | | **3,60,000** | | **3,60,000** |

On the above date the firm is dissolved and the following agreement was made: Tanu agree to pay the bank loan and took away the sundry debtors. Sundry creditors accepts stock and paid Rs.10,000 to the firm. Machinery is taken over by Manu for Rs.40,000 and agreed to pay of bills payable at a discount of 5%.. Motor car was taken over by Tanu for Rs.60,000. Investment realised Rs.76,000 and fixtures Rs.4,000. The expenses of dissolution amounted to Rs.2,200.

Prepare Realisation Account, Bank Account and Partners Capital Accounts.

(**Ans :** Loss on Ralisation Rs.37,600, Total of Bank Account Rs.1,06,000; Amount pait to Tannu Rs. 31,500, Manu Rs. 72,300)

## *Checklist to Check your Understanding*

*Test your Understanding – I*

1. True, 2 True, 3. True, 4. False, 5. True, 6. True, 7. True, 8. False.

*Test your Understanding – II*

1. (c), 2. (d), 3. (b), 4. (b), 5. (c), 6. (a), 7. (b), 8. (c)

*Test your Understanding – III*

1. Debit, Realisaton, 2. External, Credit, Realisation, 3. Capital Accounts, Profit sharing ratio. 4. Credited, 5. Debited, 6. Creditor, 7. Pay, Realisation, 8. Realisation, Capital, 9. Not recorded, 10. Capital.

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## Notes

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## Notes

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