

CLASS 7 | SESSION 2026-27

Total Questions : 50 Time : 1 hr.

PATTERN & MARKING SCHEME

Section	No. of Questions	Marks per Ques.	Total Marks
(1) Logical Reasoning	15	1	15
(2) Subject Reasoning	20	1	20
(3) Everyday Application	10	1	10
(4) Achievers Section	5	3	15
Total	50	--	60

SYLLABUS

- Section 1** Verbal and Non-Verbal Reasoning.
- Section 2** Core Science concepts and their applications.
- Section 3** Everyday application of Science.
- Section 4** Higher Order Thinking Skills (HOTS) questions.

HOW TO USE THIS PAPER

- Every question is followed immediately by its answer.
- Try each question on your own first, then check the green answer card.
- Use the answer key at a glance on the last page for a quick revision.

TEST DAY INSTRUCTIONS

- The paper has 50 questions carrying a total of 60 marks.
- All questions are compulsory and there is no negative marking.
- Duration is 1 hour - aim for about 60 seconds per question.
- Read every question carefully before choosing your option.

SCORING STRATEGY

- Attempt the Logical Reasoning section first - it is the quickest to score.
- Take the 3-mark Achievers questions after finishing the 1-mark questions.
- Revisit every skipped question during the last ten minutes.

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QUESTION 1

Logical Reasoning · Logical Reasoning

1. Find the number of rectangles formed in the given figure.

(A) 10

(B) 11

(C) 12

(D) More than 12



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under Pattern recognition & spatial ordering.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 2

Logical Reasoning · Logical Reasoning

2. How many degrees will the minute hand rotate when the time changes from 1:42 pm to 2:10 pm?

(A) 158°

(B) 238°

(C) 143°

(D) 168°

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under Analytical grouping & Venn classification.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 3

Logical Reasoning · Science Reasoning

3. Two different positions of a dice are shown here. Which number will be on the face opposite to the face having number 2?

(A) 5

(B) 1

(C) 4

(D) 3



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under Physics: Motion, force & energy principles.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 4

Science · Science Reasoning

4. Different types of changes are listed as:

P : Physical, irreversible

Q : Physical, reversible

R : Chemical, irreversible

S : Both physical and chemical

Based on these, select the correct statement from the following.

- (A) S can represent burning of candle while P can represent shredding of paper.
 (B) P can represent ripening of a fruit while R can represent rusting of iron.
 (C) P can represent melting of butter while Q can represent cutting a piece of a paper.
 (D) S can represent burning of paper while Q can represent breaking of glass tumbler.

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under Chemistry: Matter, atomic structure & reactions.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 5

Science · Science Reasoning

- 5.** Which of the following changes takes place in boys during puberty?
(A) Development of high pitched voice (B) Enlargement of Adam's apple
(C) Broadening of pelvis (D) All of these

ANSWER & STEP-BY-STEP EXPLANATION

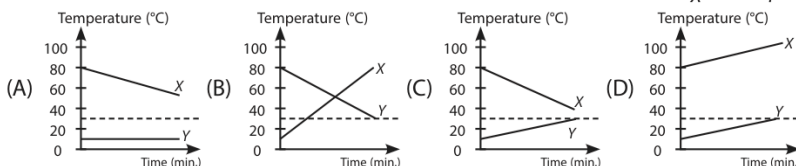
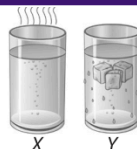
Correct: (B)

- Identify the underlying pattern and concepts under Biology: Cell structure & life processes.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 6

Science · Science Reasoning

- 6.** Two identical cups, X and Y are filled with water at different temperatures as shown in the given figures. They are placed in a room which is at a temperature of 30°C. Which one of the following graphs correctly shows the variation in the temperature of the water in the cups over a period of time?



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Environmental science & natural resources.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 7

Science · Science Reasoning

- 7.** Which of the following statements is correct regarding inhalation?
(A) Ribs move downward and inward
(B) Diaphragm becomes dome-shaped
(C) Air pressure in the lungs decreases
(D) Volume of thoracic cavity decreases

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Physics & Chemistry application problems.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 8

Science · Science Reasoning

8. Select the incorrect matches.

- | | | | |
|------------------------------|--------------|-----------------------------|-----------|
| (i) Gastric juice | – Pepsin | (ii) Gall bladder | – Lactase |
| (iii) Bile | – Pancreas | (iv) Hydrochloric acid | – Stomach |
| (v) Maltase | – Oesophagus | (vi) Saliva | – Amylase |
| (A) (ii) and (iii) only | | (B) (iii) and (iv) only | |
| (C) (ii), (iii) and (v) only | | (D) (i), (ii) and (vi) only | |

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Biological systems & organism adaptations.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

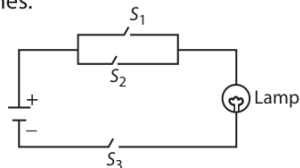
QUESTION 9

Achievers Section · Achievers Section

9. In the given circuit diagram, S_1 , S_2 and S_3 are switches.

Lamp will glow when

- | S_1 | S_2 | S_3 |
|------------|--------|--------|
| (A) Open | Open | Closed |
| (B) Closed | Closed | Open |
| (C) Open | Closed | Open |
| (D) Closed | Open | Closed |



ANSWER & STEP-BY-STEP EXPLANATION

Correct: (D)

- Identify the underlying pattern and concepts under HOTS: Advanced scientific experiment analysis.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 10

Achievers Section · Achievers Section

10. Match column I with column II and select the correct option from the given codes.

**Column I
(Type of respiration)**

- P. Tracheal
Q. Cutaneous
R. Branchial
S. Pulmonary
(A) P-(iii), Q-(i), R-(ii), S-(iv)
(C) P-(iv), Q-(ii), R-(i), S-(iii)

**Column II
(Respiratory organ involved)**

- (i) Skin
(ii) Gills
(iii) Spiracles
(iv) Lungs
(B) P-(ii), Q-(i), R-(iv), S-(iii)
(D) P-(i), Q-(iv), R-(iii), S-(ii)

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under HOTS: Multi-statement scientific inference.
- Applying the principles of Science for Class 7, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

ANSWER KEY AT A GLANCE

Q1 (D)	Q2 (D)	Q3 (D)	Q4 (A)	Q5 (B)	Q6 (C)	Q7 (C)	Q8 (C)	Q9 (D)	Q10 (A)
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