

CLASS 8 | 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 missing number, if same rule is followed in all the three figures.

7	12	5	16	8	12
21		20		?	

(A) 40

(B) 32

(C) 24

(D) 16

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Pattern recognition & spatial ordering.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 2

Logical Reasoning · Logical Reasoning

2. In a playground, a girl walks 15 m towards West. She then turns left and walks 20 m. She then turns left again and walks 10 m. Finally, she turns left and walks 15 m. How far is she now from the starting point?

(A) 5 m

(B) $5\sqrt{2}$ m

(C) 8 m

(D) $2\sqrt{5}$ m

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (B)

- Identify the underlying pattern and concepts under Analytical grouping & Venn classification.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (B) satisfies all required conditions and yields the correct result.

QUESTION 3

Logical Reasoning · Science Reasoning

3. How many such numbers are there in the given arrangement each of which is immediately preceded by an odd number but not immediately followed by a prime number?

2, 3, 5, 7, 8, 9, 3, 6, 2, 4, 7, 6, 9, 8, 3, 5, 2, 2, 9

(A) One

(B) Two

(C) Three

(D) More than three

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 8, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

QUESTION 4

Science · Science Reasoning

4. Which change would generally increase the solubility of a solid in water?

(A) Lowering temperature

(B) Adding more solid

(C) Heating the solution

(D) Decreasing pressure

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (C)

- Identify the underlying pattern and concepts under Chemistry: Matter, atomic structure & reactions.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 5

Science · Science Reasoning

5. Read the given statements and select the correct option.

Statement 1 : Kinetic friction is independent of the area of contact and depends on the material.

Statement 2 : The limiting value of static friction depends on the area of contact and is independent of material.

ANSWER & STEP-BY-STEP EXPLANATION

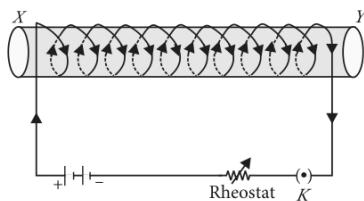
Correct: (C)

- Identify the underlying pattern and concepts under Biology: Cell structure & life processes.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (C) satisfies all required conditions and yields the correct result.

QUESTION 6

Science · Science Reasoning

6. A soft iron bar is enclosed by a coil of insulated copper wire as shown in figure. When the plug of the key is closed, the face Y of the iron bar marked as



- (A) N-pole
(C) N-pole if current is large
(B) S-pole
(D) S-pole if current is small.

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under Environmental science & natural resources.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

QUESTION 7

Science · Science Reasoning

7. *Gelidium* is a _____ algae.

- (A) Red (B) Green (C) Brown (D) Purple

ANSWER & STEP-BY-STEP EXPLANATION

Correct: (A)

- Identify the underlying pattern and concepts under Physics & Chemistry application problems.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

QUESTION 8

Science · Science Reasoning

8. Which of the following diseases are caused by bacteria?

- | | | |
|-------------------------|-----------------------------|---------------|
| (i) Measles | (ii) Tuberculosis | (iii) Tetanus |
| (iv) Malaria | (v) Mumps | (vi) Jaundice |
| (A) (ii) and (iii) only | (B) (i), (iv) and (vi) only | |
| (C) (iii) and (v) only | (D) (ii), (iv) and (v) only | |

ANSWER & STEP-BY-STEP EXPLANATION

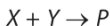
Correct: (A)

- Identify the underlying pattern and concepts under Biological systems & organism adaptations.
- Applying the principles of Science for Class 8, evaluate the given options systematically.
- Option (A) satisfies all required conditions and yields the correct result.

QUESTION 9

Achievers Section · Achievers Section

9. Two chemical species X and Y combine together to form a product P which contains both the properties of X and Y .



X and Y cannot be broken down into simpler substances by simple chemical reactions. Which of the following concerning the species X , Y and P are correct?

- | | |
|-----------------------------------|------------------------------|
| (i) P is a compound. | |
| (ii) X and Y are compounds. | |
| (iii) X and Y are elements. | |
| (iv) P has a fixed composition. | |
| (A) (i), (ii) and (iii) only | (B) (i), (ii) and (iv) only |
| (C) (ii), (iii) and (iv) only | (D) (i), (iii) and (iv) only |

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 8, evaluate the given options systematically.
- Option (D) satisfies all required conditions and yields the correct result.

Achievers Section · Achievers Section

- (i) Growing the same crop repeatedly in a particular area is known as polyculture.
- (ii) UNESCO has declared the Sundarbans a World Heritage Site in 2002.
- (iii) In parasitism, one organism benefits while the other is harmed or adversely affected.
- (iv) Organisms that cannot produce their own food and depend on other organisms for their food are called heterotrophs.

- Correct: (B)**

- Q10
(B)

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