

CLASS: 7



Duration : 2 Hrs.

Paper Pattern					
Section	(A) Physics	(B) Chemistry	(C) Biology	(D) Mathematics	(E) Logical Reasoning & IQ
Number of Questions	7	6	7	30	10

Syllabus

- Mathematical Operation • Paper Folding and Cutting

Instructions :

1. This Booklet is your **Question Paper**. DO NOT break seal of Booklet until the invigilator instructs to do so.
2. The Answer Sheet is provided to you separately which is a machine readable **Optical Response Sheet (ORS)**. You have to mark your answer in the ORS by darkening bubble, as per your answer choice, by using **Black/Blue** ball point pen only.
3. If you are found involved in cheating or disturbing others then your ORS will be cancelled.
4. Do not put any stain on ORS and hand it over back properly to the invigilator.
5. You can take along the question paper after test over.

Note: This is a Sample Paper and Actual Question Paper Contains 60 Questions.



SECTION – A : PHYSICS

1. A car moves with a speed of 40 km/h for 15 minutes and then with a speed of 60 km/h for the next 15 minutes. The total distance covered by the car is :

[Motion and Time]

- (A) 100 km (B) 25 km
(C) 15 km (D) 10 km

SECTION – B : CHEMISTRY

2. A researcher does some experiments on wastewater from a factory. He put a drop of the wastewater on a litmus paper. The litmus paper turned red. He mixed a certain solution into the water sample and retested it with a litmus paper. This time the colour did not change. The solution was added to the wastewater before releasing it into a nearby water body. What is the importance of the solution in the process?

[Acids, Bases and Salts]

- (A) To increase the speed of water flow
(B) To identify the path of flowing water
(C) To change the colour of the wastewater
(D) To neutralize the acidity in the wastewater

SECTION – C : BIOLOGY

3. Why are nutrition in animals holozoic ?

[Nutrition in Animals]

- (A) Because they depend on plants for food
(B) Because they are heterotrophs
(C) Because they can swallow food
(D) All the above

SECTION – D : MATHEMATICS

4. Consider the following statements.

Statement-I : The numerator of an improper fraction is less than the denominator.

Statement-II : The denominator of a proper fraction is greater than the numerator.

Statement-III : A mixed fraction can be converted to a proper fraction.

Statement-IV : A mixed fraction can be converted to an improper fraction.

Which of the given statements is/are correct?

[Fractions and Decimals]

- (A) Only statement-I (B) Only statement-III
(C) Statements-II and III (D) Statements-II and IV



5. The side BC of a $\triangle ABC$ is produced such that D is on ray BC. The bisector of $\angle A$ meets BC in L, then :

[Triangle and its Properties]

- (A) $\angle ABC + \angle ACD = 2\angle ALC$ (B) $\angle ABC + \angle ACD = \angle ALC$
(C) $\angle ABC + \angle ALD = \angle ACD$ (D) $\angle ABC - \angle ACD = 2\angle ALC$

6. $\triangle ABC$ and $\triangle PBC$ are two isosceles triangles on the same base BC and vertices A and P are on the same side of BC. A and P are joined, then which of the following is true :

[Triangle and its Properties]

- (A) $\triangle APB \cong \triangle ACP$ (B) $\triangle ABP \cong \triangle ACP$
(C) Both (A) and (B) (D) None of these

7. Ryan, Joana, Alan, Pankaj, Anita, Rupa participated in a quiz. Based on their scores, they were given ranks. The person scoring the highest was given the first rank. The information below describes rank secured by participants.

- Alan secured rank lower than Joana.
- Pankaj secured 4th rank, which is one rank lower than that of Joana.
- Anita didn't secure 6th rank but secured rank lower than Ryan.
- Alan is not the last.

Which table correctly represents the data ?

[Data Handling]

(A)

Rank	Name
1	Ryan
2	Anita
3	Joana
4	Pankaj
5	Alan
6	Rupa

(B)

Rank	Name
1	Alan
2	Ryan
3	Anita
4	Pankaj
5	Joana
6	Rupa

(C)

Rank	Name
1	Rupa
2	Joana
3	Alan
4	Pankaj
5	Anita
6	Ryan

(D)

Rank	Name
1	Rupa
2	Anita
3	Ryan
4	Pankaj
5	Joana
6	Alan

8. In a class test containing 20 questions, 3 marks are given for every correct answer and -1 mark is given for every incorrect answer.

Ritu attempt all questions but only 11 of her answers are correct. What is her total score?

[Integers]

- (A) 24 (B) 33
(C) 60 (D) 32



SECTION – E : LOGICAL REASONING & IQ

9. In this question, you have to identify the image of the item (Letter/word/ Number) in the mirror. The mirror is placed below the item. Choose the true image from the given alternatives.

फसल
mmmmmm

[Mirror Image]

- (A) फसल (B) फसल
(C) फसल (D) फसल
10. In an imaginary language, the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are substituted by a, b, c, d, e, f, g, h, i and j. And 10 is written as ba. Then $(cd + ef) \times be$ is equal to :

[Mathematical Operations]

- (A) 684 (B) 816
(C) 952 (D) 1564