

Instructions:

- This paper contains 10 questions - 5 Science and 5 Mathematics
- Each question carries equal marks
- Choose the correct option for each question
- This is a sample paper, Original question paper will contain 20 Maths, 20 science questions. Duration : 1 hr 30 mins

SCIENCE (Questions 1-5)

Question 1: A person sitting in an open car moving at constant velocity throws a ball vertically up into air. The ball falls:

- (A) Outside the car
- (B) In the car ahead of the person
- (C) In the car to the side of the person
- (D) Exactly in the hand which threw it up

Answer: (D) Exactly in the hand which threw it up

Question 2: The buried dead plants get converted to _____ due to high temperature and pressure underneath the earth:

- (A) Rocks
- (B) Coal
- (C) Bacteria
- (D) Metal

Answer: (B) Coal

Question 3: Which of the following is not the consequence of reflection of sound?

- (A) Resonance
- (B) Hearing an echo
- (C) Ultrasound scanning
- (D) SONAR

Answer: (A) Resonance

Question 4: Corrosion in case of iron is known as:

- (A) Corrosion
- (B) Galvanization
- (C) Rusting
- (D) Alloying

Answer: (C) Rusting

Question 5: Which activity contributes the most to global warming?

- (A) Using electric geysers
- (B) Burning fossil fuels
- (C) Using hydrogen as fuel
- (D) Burning sulphur

Answer: (B) Burning fossil fuels

MATHEMATICS (Questions 6-10)

Question 6: A D G J M P S V ?

- (A) Y
- (B) X
- (C) B
- (D) C

Answer: (A) Y

Question 7: 7, 10, 8, 11, 9, 12, ?, ?

- (A) 7, 11
- (B) 10, 13
- (C) 12, 15
- (D) 13, 14

Answer: (B) 10, 13

Question 8: Pummy was facing East. He walked 6 km forward and then after turning to his right walked 2 km. Again he turned to his right and walked 6 km. After this, he turned back. Which direction he was facing at that time?

- (A) East
- (B) West
- (C) North
- (D) North – South

Answer: (A) East

Question 9: If $5 \times 4 = 15$, $7 \times 5 = 49$ and $6 \times 6 = 24$, what will 8×4 be?

- (A) 64
- (B) 36
- (C) 32
- (D) 24

Answer: (D) 24

Question 10: Arrange the following words according to dictionary:

1. Incompetent
2. Institution
3. Inhospitable
4. Improvement
5. Incomplete

- (A) 4, 2, 3, 5, 1
- (B) 4, 1, 3, 5, 2
- (C) 4, 2, 5, 3, 2
- (D) 4, 1, 5, 3, 2

Answer: (D) 4, 1, 5, 3, 2 (Improvement, Incompetent, Incomplete, Inhospitable, Institution)

End of Paper

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