

Class 3 · Logical Reasoning — Coding and Decoding

Total questions 25	Total marks 25	Time 60 minutes	Negative marking None
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Each question has four options, of which only one is correct. Mark your answer on the answer sheet. The Achievers Section carries higher marks per question. The answer key with full solutions is at the end of this paper.

This is original practice material written to the Level 1 pattern. It is not a past paper and is not affiliated with SOF or any official olympiad body.

Coding and Decoding

25 questions · 1 mark each · 25 marks

- Q1. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is CUP written?
(A) 4 - 22 - 17 (B) 16 - 21 - 3 (C) 3 - 21 - 16 (D) 24 - 6 - 11
- Q2. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is CAT written?
(A) 20 - 1 - 3 (B) 4 - 2 - 21 (C) 24 - 26 - 7 (D) 3 - 1 - 20
- Q3. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is MAP written?
(A) 13 - 1 - 16 (B) 16 - 1 - 13 (C) 14 - 26 - 11 (D) 14 - 2 - 17
- Q4. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is BAG written?
(A) 7 - 1 - 2 (B) 3 - 2 - 8 (C) 25 - 26 - 20 (D) 2 - 1 - 7
- Q5. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is MAP written?
(A) 16 - 1 - 13 (B) 14 - 2 - 17 (C) 14 - 26 - 11 (D) 13 - 1 - 16
- Q6. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is MAP written?
(A) 13 - 1 - 16 (B) 14 - 2 - 17 (C) 14 - 26 - 11 (D) 16 - 1 - 13
- Q7. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is CAT written?
(A) 20 - 1 - 3 (B) 3 - 1 - 20 (C) 24 - 26 - 7 (D) 4 - 2 - 21
- Q8. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is BUS written?
(A) 19 - 21 - 2 (B) 3 - 22 - 20 (C) 25 - 6 - 8 (D) 2 - 21 - 19
- Q9. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is PEN written?
(A) 16 - 5 - 14 (B) 17 - 6 - 15 (C) 11 - 22 - 13 (D) 14 - 5 - 16
- Q10. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is BAG written?
(A) 3 - 2 - 8 (B) 7 - 1 - 2 (C) 2 - 1 - 7 (D) 25 - 26 - 20
- Q11. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is CUP written?
(A) 4 - 22 - 17 (B) 24 - 6 - 11 (C) 16 - 21 - 3 (D) 3 - 21 - 16
- Q12. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is CUP written?
(A) 24 - 6 - 11 (B) 3 - 21 - 16 (C) 16 - 21 - 3 (D) 4 - 22 - 17

Q13. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is BAG written?

- (A) 3 - 2 - 8 (B) 2 - 1 - 7 (C) 25 - 26 - 20 (D) 7 - 1 - 2

Q14. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is CAT written?

- (A) 20 - 1 - 3 (B) 3 - 1 - 20 (C) 24 - 26 - 7 (D) 4 - 2 - 21

Q15. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is CUP written?

- (A) 16 - 21 - 3 (B) 3 - 21 - 16 (C) 24 - 6 - 11 (D) 4 - 22 - 17

Q16. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is INK written?

- (A) 11 - 14 - 9 (B) 9 - 14 - 11 (C) 18 - 13 - 16 (D) 10 - 15 - 12

Q17. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is BAG written?

- (A) 25 - 26 - 20 (B) 2 - 1 - 7 (C) 7 - 1 - 2 (D) 3 - 2 - 8

Q18. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is SUN written?

- (A) 14 - 21 - 19 (B) 20 - 22 - 15 (C) 8 - 6 - 13 (D) 19 - 21 - 14

Q19. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is CUP written?

- (A) 3 - 21 - 16 (B) 16 - 21 - 3 (C) 4 - 22 - 17 (D) 24 - 6 - 11

Q20. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is INK written?

- (A) 10 - 15 - 12 (B) 11 - 14 - 9 (C) 9 - 14 - 11 (D) 18 - 13 - 16

Q21. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is BAG written?

- (A) 2 - 1 - 7 (B) 25 - 26 - 20 (C) 7 - 1 - 2 (D) 3 - 2 - 8

Q22. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is PEN written?

- (A) 11 - 22 - 13 (B) 14 - 5 - 16 (C) 17 - 6 - 15 (D) 16 - 5 - 14

Q23. If TIN is written as 20 - 9 - 14 using the positions of the letters in the alphabet, how is BUS written?

- (A) 25 - 6 - 8 (B) 19 - 21 - 2 (C) 2 - 21 - 19 (D) 3 - 22 - 20

Q24. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is CAT written?

- (A) 4 - 2 - 21 (B) 24 - 26 - 7 (C) 20 - 1 - 3 (D) 3 - 1 - 20

Q25. If JAR is written as 10 - 1 - 18 using the positions of the letters in the alphabet, how is PEN written?

- (A) 16 - 5 - 14 (B) 17 - 6 - 15 (C) 14 - 5 - 16 (D) 11 - 22 - 13

Answer Key

1	2	3	4	5	6	7	8	9	10
C	D	A	D	D	A	B	D	A	C
11	12	13	14	15	16	17	18	19	20
D	B	B	B	B	B	B	D	A	C
21	22	23	24	25					
A	D	C	D	A					

Solutions

- Q1. (C) C is letter 3 and U is letter 21 and P is letter 16, so CUP = 3 - 21 - 16.
- Q2. (D) C is letter 3 and A is letter 1 and T is letter 20, so CAT = 3 - 1 - 20.
- Q3. (A) M is letter 13 and A is letter 1 and P is letter 16, so MAP = 13 - 1 - 16.
- Q4. (D) B is letter 2 and A is letter 1 and G is letter 7, so BAG = 2 - 1 - 7.
- Q5. (D) M is letter 13 and A is letter 1 and P is letter 16, so MAP = 13 - 1 - 16.
- Q6. (A) M is letter 13 and A is letter 1 and P is letter 16, so MAP = 13 - 1 - 16.
- Q7. (B) C is letter 3 and A is letter 1 and T is letter 20, so CAT = 3 - 1 - 20.
- Q8. (D) B is letter 2 and U is letter 21 and S is letter 19, so BUS = 2 - 21 - 19.
- Q9. (A) P is letter 16 and E is letter 5 and N is letter 14, so PEN = 16 - 5 - 14.
- Q10. (C) B is letter 2 and A is letter 1 and G is letter 7, so BAG = 2 - 1 - 7.
- Q11. (D) C is letter 3 and U is letter 21 and P is letter 16, so CUP = 3 - 21 - 16.
- Q12. (B) C is letter 3 and U is letter 21 and P is letter 16, so CUP = 3 - 21 - 16.
- Q13. (B) B is letter 2 and A is letter 1 and G is letter 7, so BAG = 2 - 1 - 7.
- Q14. (B) C is letter 3 and A is letter 1 and T is letter 20, so CAT = 3 - 1 - 20.
- Q15. (B) C is letter 3 and U is letter 21 and P is letter 16, so CUP = 3 - 21 - 16.
- Q16. (B) I is letter 9 and N is letter 14 and K is letter 11, so INK = 9 - 14 - 11.
- Q17. (B) B is letter 2 and A is letter 1 and G is letter 7, so BAG = 2 - 1 - 7.
- Q18. (D) S is letter 19 and U is letter 21 and N is letter 14, so SUN = 19 - 21 - 14.
- Q19. (A) C is letter 3 and U is letter 21 and P is letter 16, so CUP = 3 - 21 - 16.
- Q20. (C) I is letter 9 and N is letter 14 and K is letter 11, so INK = 9 - 14 - 11.
- Q21. (A) B is letter 2 and A is letter 1 and G is letter 7, so BAG = 2 - 1 - 7.
- Q22. (D) P is letter 16 and E is letter 5 and N is letter 14, so PEN = 16 - 5 - 14.
- Q23. (C) B is letter 2 and U is letter 21 and S is letter 19, so BUS = 2 - 21 - 19.
- Q24. (D) C is letter 3 and A is letter 1 and T is letter 20, so CAT = 3 - 1 - 20.
- Q25. (A) P is letter 16 and E is letter 5 and N is letter 14, so PEN = 16 - 5 - 14.

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