STUDENT COPY · SET B

Class 10 · Reasoning Olympiad

Total questions	Total marks	Time	Negative marking
50	60	60 minutes	None

Name: _____ Class/Section: _____ Roll no: _____

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. Your teacher has the answers.
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Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. In a certain code FAN is written as HCP. How is BAT written in that code?

(A) VCD (B) EDW (C) ZYR (D) DCV

Q2. If the 18th of a month is a Monday, what day of the week is the 31st of the same month?

(A) Sunday (B) Monday (C) Saturday (D) Tuesday

Q3. Pointing to a boy in a photograph, Anjali said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Anjali?

(A) Nephew (B) Brother (C) Uncle (D) Cousin

Q4. All but one of these numbers are multiples of the same number. Find the one that is not: 18, 21, 49, 56, 70

(A) 56 (B) 49 (C) 18 (D) 21

Q5. 6 : 36 :: 12 : ___

(A) 121 (B) 24 (C) 169 (D) 144

Q6. A father is 33 years older than his son. The son is 13 years old now. How old will the father be after 7 years?

(A) 46 years (B) 53 years (C) 54 years (D) 60 years

Q7. If DOG is written as 4 - 15 - 7 using the positions of the letters in the alphabet, how is BUS written?

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

Q8. Read the statements and choose the conclusion that MUST be true.
All metals conduct electricity. Copper is a metal.

(A) Only copper is a metal.
(B) Copper conducts electricity.
(C) Copper does not conduct electricity.
(D) All conductors are copper.

Q9. Arun walks 8 m north, then 4 m east, then 5 m south. Where is Arun now, relative to the starting point?

(A) 4 m north and 4 m east
(B) 8 m north and 4 m east
(C) 3 m north and 5 m east
(D) 3 m north and 4 m east

Q10. Which letter comes next? D, H, L, P, ___

(A) X (B) T (C) S (D) U

Q11. In the first row the numbers are 2, 5 and 8. In the second row they are 7, 4 and 26. In the third row they are 6, 2 and ___ . The same rule applies to every row.

(A) 10 (B) 12 (C) 11 (D) 9

Q12. Kabir walks 7 m towards north, turns right and walks 2 m, then turns right again and walks 7 m. How far is Kabir from the starting point, and in which direction?

(A) 7 m, East (B) 2 m, East (C) 2 m, West (D) 9 m, North

Q13. In a row of 37 children, Arjun is 22nd from the left end. What is Arjun's position from the right end?

(A) 16th (B) 17th (C) 15th (D) 18th

Q14. Which of these figures has exactly 6 lines of symmetry?



(A) (B) (C) (D)

Q15. In a queue, Nita is 5th from the front and 5th from the back. How many people are in the queue altogether?

(A) 8 (B) 10 (C) 9 (D) 11

Q16. Find the next number in the pattern: 5, 13, 29, 61, ___

(A) 122 (B) 123 (C) 128 (D) 125

Q17. In a class, 23 students play cricket, 17 play football and 10 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 20 (B) 40 (C) 31 (D) 30

Q18. Which letter comes next? F, H, K, O, ___

(A) S (B) T (C) U (D) R

Q19. In a certain code FAN is written as GBO. How is BAT written in that code?

(A) DCV (B) AZS (C) CBU (D) UBC

Q20. If the 15th of a month is a Friday, what day of the week is the 31st of the same month?

(A) Sunday (B) Saturday (C) Monday (D) Tuesday

Q21. All but one of these numbers are multiples of the same number. Find the one that is not: 35, 42, 49, 58, 70

(A) 49 (B) 70 (C) 58 (D) 42

Q22. 6 : 36 :: 9 : ___

(A) 81 (B) 18 (C) 100 (D) 64

Q23. A father is 26 years older than his son. The son is 7 years old now. How old will the father be after 7 years?

(A) 40 years (B) 33 years (C) 41 years (D) 47 years

Q24. If RAT is written as 18 - 1 - 20 using the positions of the letters in the alphabet, how is BUS written?

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

Q25. Read the statements and choose the conclusion that MUST be true.
Every student in the class has a pencil. Rahul is a student in the class.

(A) Only Rahul has a pencil. (B) Rahul has a pencil.

(C) Rahul has no pencil. (D) Some students have no pencil.

Q26. Sima walks 7 m north, then 3 m east, then 4 m south. Where is Sima now, relative to the starting point?

(A) 3 m north and 4 m east (B) 4 m north and 3 m east

(C) 7 m north and 3 m east (D) 3 m north and 3 m east

Q27. Which letter comes next? D, F, H, J, ___

(A) L (B) K (C) M (D) N

Q28. In the first row the numbers are 5, 8 and 42. In the second row they are 7, 9 and 65. In the third row they are 2, 7 and ___ . The same rule applies to every row.

(A) 16 (B) 18 (C) 17 (D) 15

Q29. Riya walks 5 m towards north, turns right and walks 8 m, then turns right again and walks 5 m. How far is Riya from the starting point, and in which direction?

(A) 5 m, East (B) 8 m, West (C) 8 m, East (D) 13 m, North

Q30. In a row of 36 children, Arjun is 10th from the left end. What is Arjun’s position from the right end?

(A) 28th (B) 27th (C) 29th (D) 26th

Q31. In a queue, Deep is 7th from the front and 5th from the back. How many people are in the queue altogether?

(A) 13 (B) 10 (C) 11 (D) 12

Q32. Find the next number in the pattern: 5, 11, 23, 47, ___

(A) 95 (B) 93 (C) 96 (D) 94

Q33. In a class, 13 students play cricket, 9 play football and 5 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 22 (B) 12 (C) 18 (D) 17

Q34. Which letter comes next? E, G, J, N, ___

(A) T (B) S (C) Q (D) R

Q35. In a certain code TIN is written as UJO. How is DOG written in that code?

(A) EPH (B) CNF (C) FQI (D) HPE

Q36. If the 18th of a month is a Wednesday, what day of the week is the 29th of the same month?

(A) Sunday (B) Tuesday (C) Saturday (D) Monday

Q37. Pointing to a boy in a photograph, Rahul said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Rahul?

(A) Uncle (B) Nephew (C) Brother (D) Cousin

Q38. All but one of these numbers are multiples of the same number. Find the one that is not: 8, 12, 22, 28, 32

(A) 22 (B) 8 (C) 32 (D) 12

Q39. 11 : 121 :: 5 : ___

(A) 10 (B) 25 (C) 36 (D) 16

Q40. A father is 27 years older than his son. The son is 16 years old now. How old will the father be after 8 years?

(A) 59 years (B) 43 years (C) 52 years (D) 51 years

Q41. Nila walks 9 m north, then 6 m east, then 2 m south. Where is Nila now, relative to the starting point?

(A) 9 m north and 6 m east (B) 8 m north and 6 m east

(C) 7 m north and 6 m east (D) 7 m north and 7 m east

Q42. Which letter comes next? J, M, P, S, ___

(A) U (B) W (C) V (D) Y

Q43. In the first row the numbers are 5, 9 and 43. In the second row they are 2, 2 and 2. In the third row they are 5, 6 and ___ . The same rule applies to every row.

(A) 28 (B) 29 (C) 27 (D) 30

Q44. Meera walks 4 m towards north, turns right and walks 7 m, then turns right again and walks 4 m. How far is Meera from the starting point, and in which direction?

(A) 7 m, East (B) 11 m, North (C) 4 m, East (D) 7 m, West

Q45. In a row of 28 children, Imran is 11th from the left end. What is Imran’s position from the right end?

(A) 19th (B) 18th (C) 20th (D) 17th

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. If FISH is coded as JMWL, how is MILK coded?

(A) UQTS (B) QMPO (C) IEHG (D) OPMQ

Q47. If FISH is coded as KNXM, how is MILK coded?

(A) RNQP (B) WSVU (C) HDGF (D) PQNR

Q48. Find the next number: 6, 8, 12, 18, 26, ___

(A) 34 (B) 37 (C) 38 (D) 36

Q49. If DESK is coded as FGUM, how is MILK coded?

(A) KGJI (B) QMPO (C) OKNM (D) MNKO

Q50. If RING is coded as ULQJ, how is GATE coded?

(A) DXQB (B) MGZK (C) HWDJ (D) JDWH

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