STUDENT COPY · SET A

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.
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.

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Logical Reasoning

45 questions · 1 mark each · 45 marks

Q1. Which word would come FIRST in a dictionary?

(A) matter (B) monkey (C) marble (D) mother

Q2. Five friends A, B, C, D and E sit in a row of five seats. A sits at the extreme left end, D sits at the extreme right end, C sits exactly in the middle and B sits between A and C. Who sits in the fourth seat from the left?

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

Q3. All but one of these numbers are multiples of the same number. Find the one that is not: 18, 20, 24, 40, 44

(A) 20 (B) 18 (C) 44 (D) 40

Q4. If FAN is written as 6 - 1 - 14 using the positions of the letters in the alphabet, how is CAT written?

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

Q5. If the 8th of a month is a Saturday, what day of the week is the 19th of the same month?

(A) Tuesday (B) Thursday (C) Wednesday (D) Friday

Q6. In the first row the numbers are 8, 6 and 28. In the second row they are 2, 3 and 10. In the third row they are 8, 2 and ___ . The same rule applies to every row.

(A) 21 (B) 22 (C) 20 (D) 19

Q7. In a class, 20 students play cricket, 14 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) 24 (B) 34 (C) 25 (D) 14

Q8. Which one does NOT belong with the others?

(A) Circle (B) Square (C) Pentagon (D) Rectangle

Q9. In a queue, Farah is 11th from the front and 10th from the back. How many people are in the queue altogether?

(A) 21 (B) 20 (C) 22 (D) 19

Q10. In a row of 25 children, Arjun is 12th from the left end. What is Arjun's position from the right end?

(A) 13th (B) 16th (C) 15th (D) 14th

Q11. Which of these figures has exactly 5 lines of symmetry?



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

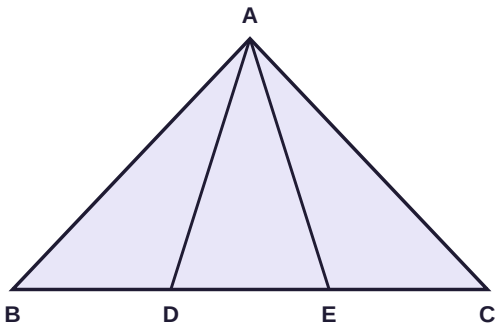
Q12. Which letter comes next? D, F, I, M, ___

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

Q13. Three of the following four are alike and form a group. Which one does NOT belong?

(A) Godavari (B) Yamuna (C) Krishna (D) Everest

Q14. How many triangles are there in the given figure?



(A) 5 (B) 6 (C) 7 (D) 8

Q15. Which letter comes next? D, G, J, M, ___

(A) O (B) S (C) Q (D) P

Q16. Ravi walks 8 m north, then 5 m east, then 2 m south. Where is Ravi now, relative to the starting point?

(A) 7 m north and 5 m east (B) 6 m north and 5 m east

(C) 6 m north and 6 m east (D) 8 m north and 5 m east

Q17. 8 : 64 :: 11 : ___

(A) 121 (B) 22 (C) 100 (D) 144

Q18. Pointing to a boy in a photograph, Meera said, "This boy is not me, but he is the son of my paternal grandfather's only son." How is the boy related to Meera?

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

Q19. A father is 29 years older than his son. The son is 10 years old now. How old will the father be after 5 years?

(A) 45 years (B) 39 years (C) 49 years (D) 44 years

Q20. Find the next number in the pattern: 2, 7, 17, 37, ___

(A) 80 (B) 77 (C) 75 (D) 74

Q21. Read the statements and choose the conclusion that MUST be true.
All roses are flowers. All flowers need water.

(A) All roses need water. (B) Some roses do not need water.

(C) Only roses need water. (D) All flowers are roses.

Q22. Arjun walks 7 m towards north, turns right and walks 5 m, then turns right again and walks 7 m. How far is Arjun from the starting point, and in which direction?

(A) 7 m, East (B) 5 m, East (C) 5 m, West (D) 12 m, North

Q23. In a certain code HAT is written as LEX. How is DOG written in that code?

(A) ITL (B) ZKC (C) HSK (D) KSH

Q24. All but one of these numbers are multiples of the same number. Find the one that is not: 24, 30, 46, 54, 66

(A) 24 (B) 46 (C) 30 (D) 54

Q25. If RAT is written as 18 - 1 - 20 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

Q26. If the 8th of a month is a Sunday, what day of the week is the 17th of the same month?

(A) Monday (B) Thursday (C) Wednesday (D) Tuesday

Q27. In the first row the numbers are 7, 8 and 55. In the second row they are 8, 2 and 15. In the third row they are 4, 2 and ___ . The same rule applies to every row.

(A) 8 (B) 7 (C) 6 (D) 9

Q28. In a class, 18 students play cricket, 22 play football and 7 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 33 (B) 34 (C) 26 (D) 40

Q29. In a queue, Deep is 7th from the front and 6th from the back. How many people are in the queue altogether?

(A) 12 (B) 13 (C) 14 (D) 11

Q30. In a row of 40 children, Ravi is 26th from the left end. What is Ravi’s position from the right end?

(A) 17th (B) 14th (C) 16th (D) 15th

Q31. Which letter comes next? C, E, H, L, ___

(A) P (B) R (C) O (D) Q

Q32. Which letter comes next? C, E, G, I, ___

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

Q33. Arun walks 6 m north, then 3 m east, then 4 m south. Where is Arun now, relative to the starting point?

(A) 3 m north and 3 m east (B) 6 m north and 3 m east

(C) 2 m north and 3 m east (D) 2 m north and 4 m east

Q34. 5 : 25 :: 12 : ___

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

Q35. Pointing to a boy in a photograph, Vikram said, “This boy is not me, but he is the son of my paternal grandfather’s only son.” How is the boy related to Vikram?

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

Q36. A father is 35 years older than his son. The son is 13 years old now. How old will the father be after 5 years?

(A) 54 years (B) 58 years (C) 53 years (D) 48 years

Q37. Find the next number in the pattern: 4, 9, 19, 39, ___

(A) 77 (B) 80 (C) 79 (D) 78

Q38. Arjun walks 4 m towards north, turns right and walks 3 m, then turns right again and walks 4 m. How far is Arjun from the starting point, and in which direction?

(A) 3 m, West (B) 3 m, East (C) 7 m, North (D) 4 m, East

Q39. In a certain code TIN is written as WLQ. How is PEN written in that code?

(A) MBK (B) QHS (C) TIR (D) SHQ

Q40. All but one of these numbers are multiples of the same number. Find the one that is not: 32, 36, 60, 96, 132

(A) 96 (B) 32 (C) 36 (D) 60

Q41. If TIN is written as 20 - 9 - 14 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

Q42. If the 15th of a month is a Thursday, what day of the week is the 28th of the same month?

(A) Thursday (B) Friday (C) Tuesday (D) Wednesday

Q43. In the first row the numbers are 9, 7 and 65. In the second row they are 8, 8 and 66. In the third row they are 2, 2 and ___ . The same rule applies to every row.

(A) 5 (B) 7 (C) 8 (D) 6

Q44. In a class, 16 students play cricket, 20 play football and 8 play both games. Every student plays at least one of the two. How many students are there in the class?

(A) 36 (B) 20 (C) 28 (D) 29

Q45. In a queue, Deep is 9th from the front and 10th from the back. How many people are in the queue altogether?

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

Achievers Section

5 questions · 3 marks each · 15 marks

Q46. Find the next number: 4, 6, 10, 16, 24, ___

(A) 32 (B) 36 (C) 35 (D) 34

Q47. If DESK is coded as EFTL, how is WIND coded?

(A) VHMC (B) YKPF (C) EOJX (D) XJOE

Q48. Find the next number: 2, 4, 8, 14, 22, ___

(A) 33 (B) 30 (C) 34 (D) 32

Q49. If LAMP is coded as ODPS, how is WIND coded?

(A) TFKA (B) COTJ (C) ZLQG (D) GQLZ

Q50. If BOOK is coded as DQQM, how is WIND coded?

(A) UGLB (B) AMRH (C) FPKY (D) YKPF

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