Candidate Name	Class	Section

BLOOM Reasoning
Olympiad (BRO)
Question Paper 2023-24

Class 6

Total Questions **50 + 5** (Tie-Breaking Section)

Total Time Allotted :
60 minutes

Total Marks
60

Instructions

1. There are **50 Multiple Choice Questions** in this booklet having 4 options out of which **ONLY ONE** is correct.

2. There are two sections in the Question Paper; Section 1 having 40 Questions carrying 1 Mark each & Section 2 having 10 Higher Difficulty Order Questions carrying 2 Marks each.

3. All questions are compulsory. There is **NO negative** marking for incorrect answers.

4. Total time allotted to complete the paper is 60 minutes.

5. Please fill in your details in the space provided on this page before attempting the paper.

OMR Sheet Instructions

1. Before starting the paper, fill in all the details in the OMR Sheet.

2. Additional 10 minutes will be provided to fill up the OMR sheet, before the start of the exam.

3. Use HB Pencil to darken the circle of the correct Option in OMR sheet. The correct way to darken the circle in OMR sheet is shown below.

   ● ○ ○ ○

4. Use black or blue ball point pen/HB pencil to fill the information in the OMR sheet. Partially filled OMR sheet will not be checked.

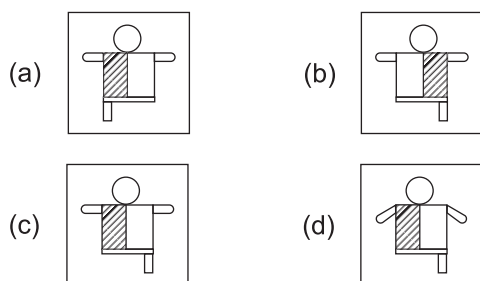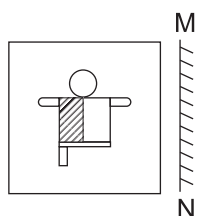5. Return the OMR sheet to the invigilator after the exam.

CODE #1

R6

BLOOM CAP
Founded by | arihant

Section 1 (1 Mark)

1. If the digits in the number 95687349842749 are arranged in descending order the position of how many numbers shall remain the same?

(a) 3   (b) 4

(c) 6   (d) 7

2. Choose the correct mirror image which closely resembles the mirror image of the given image.

(a)   (b)

(c)   (d)

3. In the given shapes all have something in common except one. You must find the odd one out. Choose the shape that you think does not go with the other three.

(a)   (b)

(c)   (d)
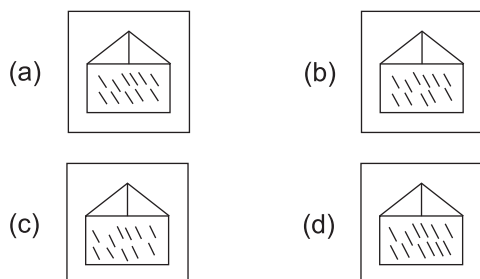
4. How many 9's are there in the following series, which are immediately preceded by 3 and followed by 6?

3969393939636395695693 9639

(a) 2   (b) 3

(c) 4   (d) 5

5. In the given question there is a certain relationship between two given pair on both side of '::'. One word is given on the other side of '::' while another word is to be found from the given options, having the same relation with this word as the words of the given pair.

Choose the correct word from the following options.

Cardiology : Heart :: Zoology : ?

(a) Insects   (b) Animals

(c) Plants   (d) Germs

6. Find the correct option for the water image for the following question.

SNOW
?

(a) ꙅИOW   (b) SИOW

(c) SИOW   (d) SИOW

7. Find the odd one out of the following options.

(a) (3, 9, 27)   (b) (5, 25, 125)

(c) (6, 36, 216)   (d) (9, 81, 727)

8. Select the number from among the given options that can replace the question mark (?) in the given series.

50, 67, 86, 107, ?

(a) 118   (b) 124

(c) 130   (d) 136

9. Find the next letters in the given series.

SBC, TCD, UDE, __?__, WFG
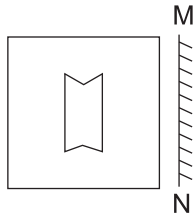(a) MNP   (b) VEF   (c) XYZ   (d) TLX

10. If A is brother of B, B is the sister of C and C is the father of D, then how A is related to C?

(a) Brother   (b) Sister
(c) Nephew   (d) Niece

11. A father is now three times as old as his son. Five years ago, he was four times as old as his son. Find the age of the son.
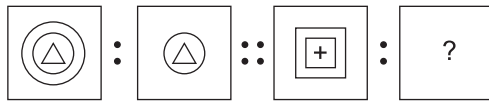
(a) 12   (b) 15   (c) 18   (d) 20

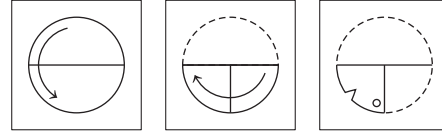**12.** Choose the answer in which question figure is hidden/embedded?

(a)   (b)

(c)   (d)

13. Select the related figure from the given alternatives.

(a)   (b)

(c)   (d)

14. Consider the figures showing a sheet of paper folded and punched in third figure. Select the figure, which will most closely resemble the unfolded form of figure.
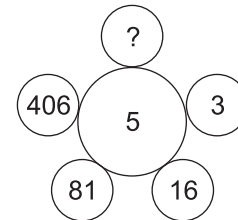

(a)   (b)

(c)   (d)

15. A man drives his car 6 km towards West, then turns left and drives 3 km and again turns left and drives 3 km. Find out the final direction of the man from his original position.

(a) South-West
(b) North-West
(c) South-East
(d) North-East

16. Find the missing number in the given question.

(a) 731   (b) 831
(c) 1625   (d) 2031

17. Find the missing number in the given number series.

5, 2, 7, 9, 16, 25, ?
(a) 40   (b) 41
(c) 45   (d) 48

18. A man from point A walks 20 m to the North, then turns left and walks 40 m, again turns left and walks 20 m. At last he turns right and walks 20 m to reach at point B. Find distance and direction from point A to B.
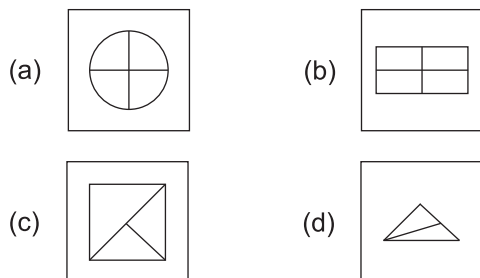
(a) 20 m West
(b) 40 m East
(c) 60 m West
(d) 60 m East

19. Choose the related word pair as given below.

Lion : Forest :: Fish : ?
(a) Case   (b) Nest
(c) Sky   (d) Water

20. Find the odd one out of the following alternatives.

(a)   (b)

(c)   (d)

21. In a certain code language, '134' means 'good and tasty'; '478' means 'see good pictures' and '729' means 'pictures are bad'.

Which of the following digits stands for 'see'?
(a) 1   (b) 2   (c) 8   (d) 9

22. In a certain code language, if '+' denotes '×', '−' denotes '÷', '×' denotes '−' and '÷' denotes '+', then find the value of
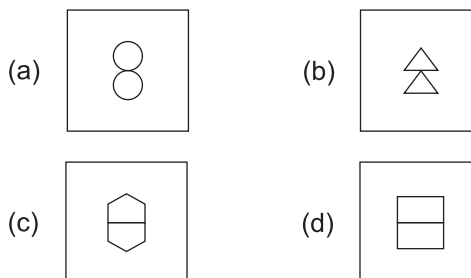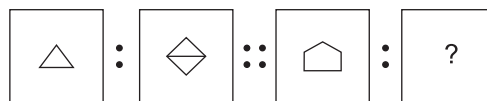
$2 + 15 \div 15 - 3 \times 8$
(a) 27   (b) 28
(c) 35   (d) 43

23. Choose the missing number.
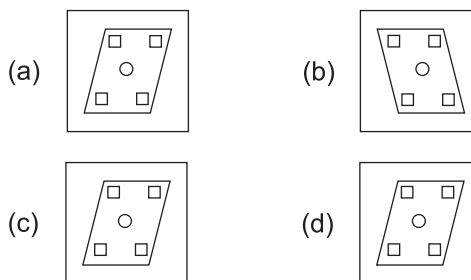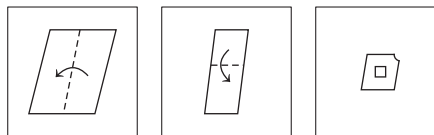

(a) 58   (b) 60
(c) 63   (d) 65

24. Select the related figure from the given alternatives.

(a)   (b)

(c)   (d)

25. In a certain code language, if $Z = 52$ and ACT $= 48$, then BAT will be equal to
(a) 39   (b) 41   (c) 44   (d) 46

26. Consider the figures showing a sheet of paper folded and punched in third figure. Select the figure, which will most closely resemble the unfolded form of figure?

(a)   (b)

(c)   (d)

27. Complete the missing number in the given series.

4, 28, 6, 26, 8, 24, 10, 22, ?
(a) 8   (b) 10   (c) 20   (d) 12

28. If $1 + 4 = 9$, $2 + 8 = 18$, $3 + 6 = 15$, then $7 + 8 = ?$
(a) 23   (b) 22
(c) 32   (d) 40

29. In the given series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

A, C, F, J, ?, ?

(a) L, P   (b) M, O   (c) O, U   (d) R, V

30. Complete the given letter series.
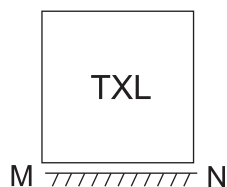
AIQ, BJR, CKS, DLT, ?

(a) EMV   (b) ENU

(c) ENV   (d) EMU

31. In a certain code 'ROAR' is written as 'URDU'. How is 'URDU' written in that code?

(a) VXDO   (b) XUGX

(c) ROAR   (d) VSOV

32. Choose the correct water image of the given figure?

33. A man walks 30 m towards South. Then, turning to his right, and walks 30 m. Again, turning to his left and walks 20 m. Finally he turns to his left and walks 30 m. How far is he from the starting point?

(a) 30 m   (b) 50 m   (c) 80 m   (d) 15 m

34. Choose the related pair of letters from the alternatives.

AF : BE :: ? : DH

(a) CG   (b) CH   (c) DG   (d) CI

35. In a certain code language, If POUR is written as 4156, SWARE is written as 78269, CLEAR is written as 3@926, then what is the code for PEARL?
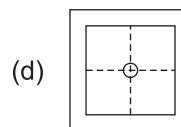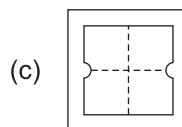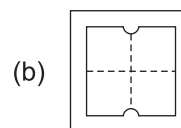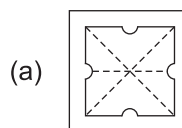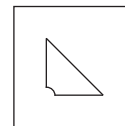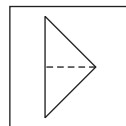
(a) 429@6   (b) 4962@

(c) 4692@   (d) 4926@

36. In the given sequence of letters, how many 'B' are followed by 'D' but not preceded by 'E'?

ECDCECDEEECBDCDEBDCDECBDCE

(a) 0   (b) 1

(c) 2   (d) 3

37. Consider the figures showing a sheet of paper folded and punched in third figure. Select the figure, which will most closely resemble the unfolded form of figure?
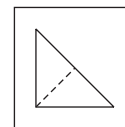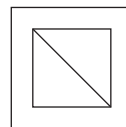
38. In certain code 'TIGER' is written as 'QDFHS'. How is 'FISH' written in that code?

(a) GERH   (b) GRHE

(c) GREH   (d) GHRE

39. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?

(a) 246173   (b) 214673

(c) 214763   (d) 216473

40. Choose the missing number according to the following pattern.

| 18 | | 19 | | 22 | | 24 | | 26 | | 27 |

| 35 | | 44 | | ? |

(a) 49   (b) 51
(c) 76   (d) 94

Section 2 (2 Marks)
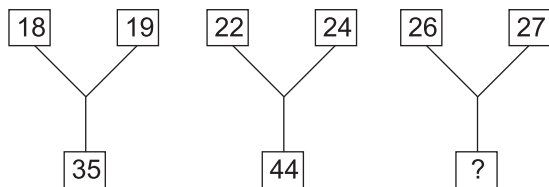
41. A child is looking for his father. He went 90 m in the East before turning to his right. He went 20 m before turning to his right again to look for his father at his uncle's place 30 m from this point. His father was not there. From, there he went 100 m to his North before meeting his father in a street. How far the son meet his father from the starting point?

(a) 80 m   (b) 100 m
(c) 120 m   (d) 240 m

42. Which alphabet will be 14th to the left of 8th alphabet from the right in the following series of letters?

AOBPCQDRESFTGUHVIWJXKYLZMN

(a) B   (b) C
(c) Y   (d) P

Directions (Q. Nos. 43 and 44) *Study the following information carefully and answer the following questions.*

In a family there are six members A, B, C, D, E and F. In this family B is the son of C. A and C are married couple. C is not the mother of B. E is brother of C. D is daughter of A and F is brother of B.

43. How is E related to D?

(a) Father   (b) Uncle
(c) Brother   (d) Mother

44. How many children does 'A' have?

(a) 1   (b) 3
(c) 4   (d) 2

45. In a certain code language 'PAINT' is written as 'QZHOU' and 'BASK' is written as 'CZTL'. How will 'MOVIE' be written in that code language?

(a) NNWHD   (b) NPWJD
(c) LNWHF   (d) LMFHW

46. If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', then what will be the value of expression given below?

$20 \div 2 + 4 - 8 \times 4 = ?$

(a) 4   (b) 8
(c) 10   (d) 14

Directions (Q. Nos. 47 and 48) *Read the instruction carefully and answer the following questions.*

Six persons A, B, C, D, E and F are sitting around the circle facing towards the centre. B is between C and D, A is between C and E, F is at the right of D.

47. Find who sits between A and F.

(a) D   (b) C
(c) E   (d) F

48. Find who is opposite of A?

(a) B   (b) C   (c) D   (d) F

49. If '+' stands for '×', '×' stands for '−', '−' stands for '÷' and '÷' stands for '+', then what is the value of.

$40 \div 60 - 15 \times 6 + 7$

(a) 11   (b) 40
(c) 8   (d) 2

50. In a class of 35 students, Sonu is 12th from the bottom, then what is his rank from the top?

(a) 23rd   (b) 24th
(c) 35th   (d) 12th

Tie-Breaking Section

Instructions

1. This section consists of 5 Questions.
2. The score achieved in this section will not be included in the total marks.
3. If overall marks of two or more students are same, winner will be decided based on the score in this section.
4. Participation in this section is optional, and students may choose to attempt it or not.

1. Rajiv walks 10 km towards North. From there he walks 6 km towards South. Again, he walks 3 km towards East. How far and in which direction is he now with reference to his starting point?

   (a) 5 km West
   (b) 7 km South-East
   (c) 5 km North-East
   (d) 7 km West

2. Q is the son of P. S is the son of Q. U is the mother of R. T is the spouse of Q. P is the father of R but R is not his son. V is the spouse of R. Which one of the following statement is not correct?

   (a) S is the grandson of P
   (b) S is the grandson of U
   (c) V is the son-in-law of P
   (d) V is the son of U

3. In a certain code language, 'singing is appreciable' is written as 'col tip mot', 'dancing is good' is written as 'mot nik min' and 'singing and dancing' is written as 'tip mop nik'. How is 'good' written in that code language?
   (a) min   (b) nik   (c) mot   (d) tip

4. Which sequence of mathematical symbols can replace * in the given expression?
   8 * 5 * 9 * 31
   (a) $- \times =$ (b) $- = \times$ (c) $= \times -$ (d) $\times - =$

5. A group of friends are sitting in an arrangement one each at the corner of an octagon. All are facing the centre. Maya is sitting diagonally opposite to Rajni, who is Shashi's right. Ramesh is next to Shashi and opposite to Gopal, who is Chirag's left. Savita is not on Maya's right, but opposite to Sheela. Who is on Sheela's right?
   (a) Ramesh   (b) Gopal
   (c) Maya   (d) Rajni