Candidate Name	Class	Section

BLOOM Reasoning
Olympiad (BRO)
Question Paper 2023-24

**Class
9**

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

R9

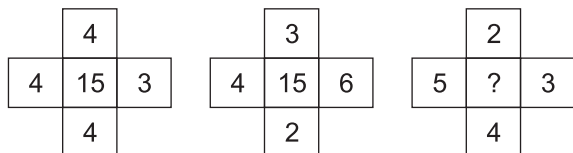**BLOOM CAP**
Founded by | arihant

Section 1 (1 Mark)

1. Raghav walks 60m towards East, then he turns right and walks 60m, now he turns left and walks 60m, now again he turns left and walks another 60m . In which direction is he from starting point ?

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

2. Introducing a man, Aditya said, ''He is the son of the woman who is the mother of the wife of my father ''. How is the man related to Aditya ?
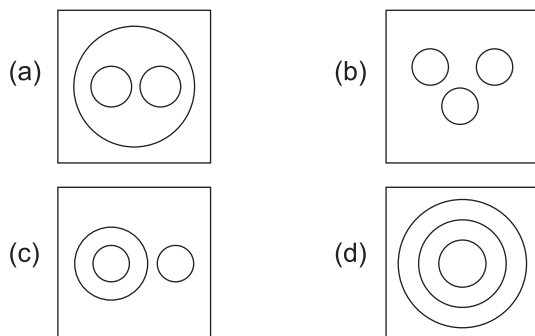
(a) Father   (b) Brother
(c) Nephew   (d) Uncle

3. Find the number which will replace the '?'

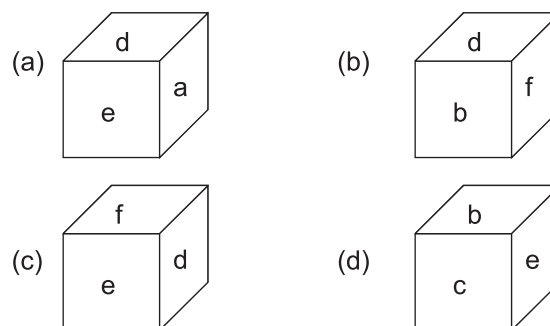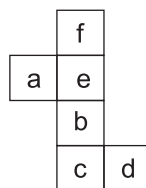|	4				3				2	
4	15	3		4	15	6		5	?	3
	4				2				4	

(a) 14   (b) 13
(c) 18   (d) 10

4. Which of the following diagram correctly represents the relationship between

Cow, Deer, Herbivorous animals?

(a) ⬜ (b) ⬜

(c) ⬜ (d) ⬜

5. Which cube can be made from the given set.

	f	
a	e	
	b	
c	d	

(a)   d / e / a

(b)   d / b / f

(c)   f / e / d

(d)   b / c / e

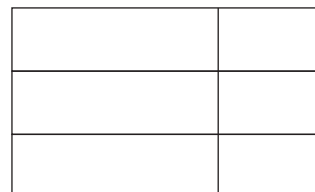**6.** Study the following statements and choose the conclusions that follow.

Statements Some camels are ships.
Some ships are bears.
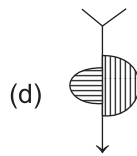**Conclusions**
 I. Some camels are bears.
 II. No camel is bear.
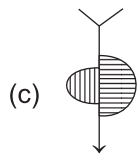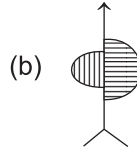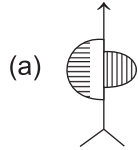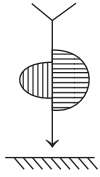(a) Only I follows
(b) Only II follows
(c) Either I or II follows
(d) Both I and II follow

7. Count the number of rectangles in the given figure.

(a) 16   (b) 15
(c) 11   (d) 12

8. Find the water image of the given figure.

(a)   (b)

(c)   (d)

9. Find what will come at the place of '?'

Chandigarh : Haryana :: ? : Orissa.
(a) Agartala
(b) Pondicherry
(c) Bhubaneshwar
(d) Goa

10. Choose the term which is different from the other.

(a) PARK   (b) PEN
(c) PAINT   (d) PLUCK

11. Find the next term in the given series

AB3, DE9, GH15, ?
(a) JK21   (b) KL28
(c) MN27   (d) PQ31

12. If in a certain code language milk is called 'paint', 'paint' is called 'curd' and 'curd' is called 'cheese'. Then, what is newborn baby's food ?

(a) Paint   (b) Curd
(c) Milk   (d) Cheese

13. Which letters 12th to the left of 5th letter from the right in English alphabetical series

(a) M   (b) L
(c) J   (d) K

14. In a class of 30 students, if Suman's rank is 12th from the top, what is her rank from the bottom?

(a) 19th   (b) 20 th
(c) 21st   (d) 22nd

15. Suman starts from her house and drives 8 km in South direction, she then turns to her right and drives 6 km to reach her office. Find the shorten distance travelled by her to reach her office?

(a) 10 km   (b) 16 km
(c) 5 km   (d) 8 km

16. Pointing towards Sushma, Bipin said "I am the only son of her mother's son". How is Sushma related to Bipin ?

(a) Niece   (b) Aunt
(c) Cousin   (d) Mother

17. At sunrise, Raj and Sushil are talking to each other. The shadow of Sushil is formed towards the right hand of Raj. What direction is Sushil facing ?

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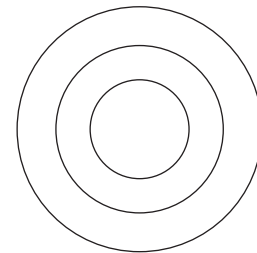(c) East   (d) North

18. P is the daughter of Q, Q is the mother of R. S is the brother of R. How is S related to P?

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

19. If cost of 15 balls is ₹ 120, then the cost of 2 balls is …
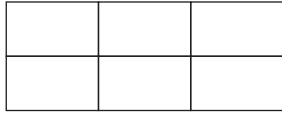
(a) ₹ 20   (b) ₹ 18   (c) ₹ 8   (d) ₹ 16

20. Choose the group of words that can be best represented by the given venn diagram.
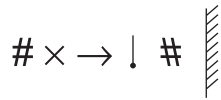
(a) Cat, Bear, Wild animals
(b) Water, Forest, Earth
(c) Seconds, Minutes, Hours
(d) Land, Rain, Rainbow

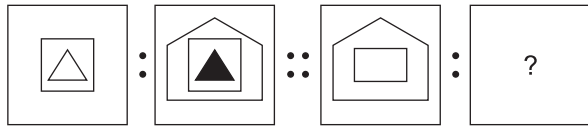**21.** Count the number of parallelograms in the following figure

(a) 11   (b) 15   (c) 12   (d) 18

22. Find the mirror image of the following combination

(a) $\# \downarrow \leftarrow \times \text{♯}$ (b) $\# \times \downarrow \times \#$

(c) $\# \times \downarrow \leftarrow \text{♯}$ (d) None of these

23. Find out the figure which will replace the '?'

(a)   (b)

(c)   (d)

24. Choose the odd term from the following

(a) AE   (b) EI   (c) IM   (d) MP

25. Find the wrong term in the given series .

1, 2, 5, 26, 676

(a) 2   (b) 5

(c) 26   (d) 676

26. If in a certain code language 'HOT' is coded as 'IPU' then how will 'INDIA' be coded in that code language?

(a) J O E J B   (b) K O E B J
(c) K L M O P   (d) None of these

27. If we arrange following letters according to dictionary, then which word will come at last ?

Hair , Here, Hare , Hear
(a) Here   (b) Hare
(c) Hear   (d) Hari

28. If Sumit is at 23rd position from both the ends of a row, then calculate the total number of students standing in the line.

(a) 45   (b) 44   (c) 43   (d) 42

29. Raju is now four times as old as his son Rasar. Five years back, he was five times as old as his son. The age of Rasar is?

(a) 15 yr   (b) 20 yr   (c) 25 yr   (d) 30 yr

30. Which of the following diagrams best represents the relationship between Orange, Guava and Brinjal?

(a)   (b)

(c)   (d)

31. Study the following statements and choose the conclusion that follows.

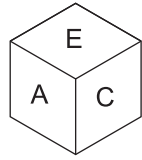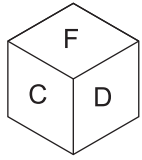**Statements** All singers are musicians.
No musician is a magician.
Conclusions
  I. All magicians are musicians.
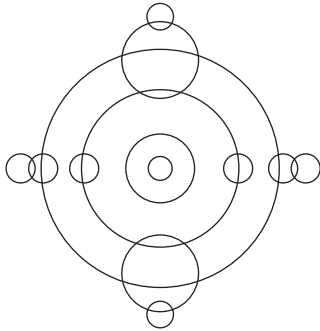 II. Some magician are musicians.
(a) Only I follows   (b) Neither I nor II follows
(c) Both follow   (d) II follows

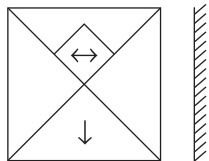**32.** From the two position of dice, find out which letter will be there opposite to the letter 'E'.

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

33. Count the number of circles in the given figure.

(a) 14   (b) 13   (c) 15   (d) 11

34. Choose the correct mirror image of the following figure.

35. Which number will come at the place of '?'

11 : 1330 : : 13 : ?

(a) 2196   (b) 2197   (c) 2198   (d) 2190

36. Choose the number which is different from the others.

(a) 16   (b) 81   (c) 79   (d) 100

37. In the given series, find the next term

A 1 , B 4, C 9 , ?

(a) D 16   (b) E 25

(c) F 32   (d) None of these

38. If in a certain code language 'DUBAI' is coded as 'ABDIU'. Then, how will 'NEPAL' be coded in that language?

(a) LEPAN   (b) AELNP

(c) PNLEA   (d) ALENP

39. Arrange the following words in meaningful orders.

1. Taj Mahal   2. Uttar pradesh
3. Agra   4. India

(a) 1, 2, 4, 3   (b) 4, 2, 3, 1

(c) 1, 3, 2, 4   (d) 2, 1, 3, 4

40. Jeevan ranks 22nd in the class of 26. Deepak is 8 ranks ahead of Jeevan. What is Deepak's rank from the last ?

(a) 21st   (b) 22nd

(c) 13th   (d) 14th

Section 2 (2 Marks)

Directions (Q. Nos. 41 and 42) *Read the following information carefully and answer the questions that follows.*

  (i) Five different subjects like Physics, Chemistry, Maths, English and Hindi are taught on 5 different days of a week from Monday to Friday in a coaching institute.

 (ii) Each subject is taught on a single day. No two subjects are taught on same day.

(iii) Physics is taught on the day immediately after the day on which Chemistry is taught.

(iv) Hindi is not taught on Monday and Friday

 (v) English is taught on Tuesday.

(vi) Hindi is taught after Maths but before Chemistry.

41. On which day Chemistry is taught?

(a) Monday   (b) Wednesday

(c) Friday   (d) Thursday

42. Which of the following subjects is taught in the mid of the week ?

(a) Maths   (b) Chemistry

(c) Hindi   (d) Physics

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

Six people Pawan, Qasim, Raman, Shruti, Teena, and Ujala are sitting on the ground in a hexagonal shape. All the sides of the hexagon so formed are of same length. Pawan is not adjacent to Qasim or Raman, Shruti is not adjacent to Raman or Teena, Qasim and Raman are adjacent, Ujala is in the middle of Shruti and Raman.
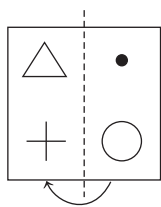
43. Which of the following is not a correct pair of neighbours.

(a) Pawan and Ujala

(b) Shruti and Ujala

(c) Qasim and Teena

(d) Raman and Ujala

44. Who is at the same distance from Shruti as Teena is from Shruti ?

(a) Qasim   (b) Raman

(c) Shruti   (d) Ujala

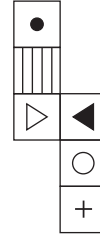**45.** Find out the pattern that will appear when transparent sheet is folded along the dotted lines.

46. Find the next term in the given series.

5 P 8 , 10 R 16, 20 T 32, ?

(a) 40 V 64   (b) 40 W 64

(c) 64 M 40   (d) None of these

47. Which of the cube can be made from the given figure.

48. Study the statements given below and find out the conclusion that logically follows from the statement.

Statements

All criminals belongs to place 'X'.

Sandesh is from city 'X'.

Conclusions

  I. Sandesh is a criminal.

 II. Sandesh is not a criminal .

(a) Either I or II follows   (b) None follows

(c) Only I follows   (d) Only II follows

Directions (Q. Nos. 49 and 50) *Read the following information carefully and answer the questions that follow.*

Six friends are seated on a round table facing the center. Deep passes a glass of water two positions in anticlockwise direction to Fatima. Fatima is sitting adjacent to Elex, who sits opposite to Bimal. There is no persons between Arun and Deep. Charu is sitting in the vacant place.

49. Who sits exactly opposite to Fatima ?

(a) Deep   (b) Charu

(c) Arun   (d) Bimal

50. Who sits third positions left of Fatima ?

(a) Charu   (b) Arun

(c) Deep   (d) Fatima

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. In the following question, some words are given which are related in some way. Find the alternatives in which the words share the same relationship.

Music : Guitar : Performer

(a) Trick : Rope : Acrobat

(b) Dance : Tune : Instrument

(c) Food : Recipe : Cook

(d) Patient : Medicine : Doctor

2. In the word 'MINISTER' if first and eight, second and seventh, third and sixth letters are interchanged and this interchange goes on in the same manner then find the 6th letter from the right in the new arrangement.

(a) M   (b) T   (c) O   (d) P

3. In a certain code language '125' is coded as 'go to school', '146' is coded as 'study in school ' and '135' is coded as 'run to school. Which digit is used for 'run' ?

(a) 6   (b) 2   (c) 3   (d) 1

Directions (Q. Nos. 4 and 5) *Read the information carefully and answer the questions.*

A combination of three colours is being chosen to decorate a room. The colour must be chosen from a group of seven colours - A, B, C, D, E, F and G according to the following conditions

(i) If A or B is chosen, the other must also be chosen.

(ii) C and D can not be chosen together.

(iii) Either C or A or both must be chosen.

4. Which of the following combination of colours confirm to the condition.

(a) A, C, D

(b) A, E, F

(c) B , C, G

(d) C, E, G

5. If D is chosen, which of the following pair of colours must also be chosen.

(a) A, B   (b) A, G

(c) B, C   (d) C, E