SOF

SCIENCE OLYMPIAD FOUNDATION

IMO

SOF INTERNATIONAL MATHEMATICS OLYMPIAD 2024-25

CLASS 1

SET-B

Total Questions : 35 | Time : 1 hr.

Guidelines for the Candidate

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.

2. Write your **Name, School Code, Class, Section, Roll No.** and **Mobile Number** clearly on the **OMR Sheet** and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.

3. The Question Paper comprises four sections:
   Logical Reasoning (10 Questions), **Mathematical Reasoning** (10 Questions), **Everyday Mathematics** (10 Questions) and **Achievers Section** (5 Questions)
   Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.

4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.

5. There is only ONE correct answer. Choose only ONE option for an answer.

6. To mark your choice of answers by darkening the circles on the OMR Sheet, use **HB Pencil** or **Blue / Black ball point pen** only. E.g.

   Q. 16: Raghav drinks 10 glasses of water in one day. If he drinks same amount of water every day, then how many glasses of water will he drink in one week?

   A. 70   B. 40   C. 50   D. 65

   As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.

   16. ● Ⓑ Ⓒ Ⓓ

7. Rough work should be done in the blank space provided in the booklet.

8. Return the OMR Sheet to the invigilator at the end of the exam.

9. Please fill in your personal details in the space provided before attempting the paper.

Name:..

SOF Olympiad Roll No.:.. Contact No.:......................................
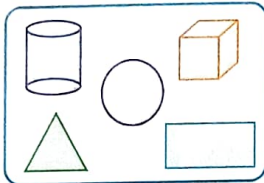
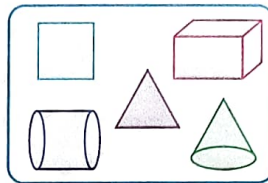**1** Which of the following objects can both roll and slide?

A.   B.   C.   D.
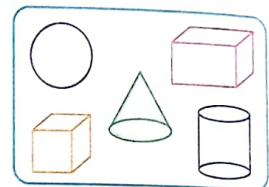
2 To which group(s) does/do △ belong?

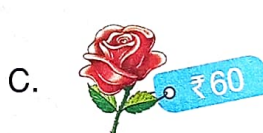Group X   Group Y   Group Z
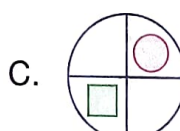
A. Y only   B. Z only   C. X and Y only   D. Y and Z only
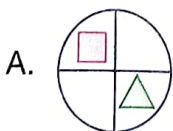
3 Ajay has ₹ 65. Which of the following items can he buy?

A. ₹72   B. ₹100   C. ₹60   D. ₹85

4 Select the option which will complete the given figure pattern.

A.   B.   C.   D.

5 There is a certain relationship between the pair of figures on either side of ::. Identify the relationship of the given pair and find the missing figure.
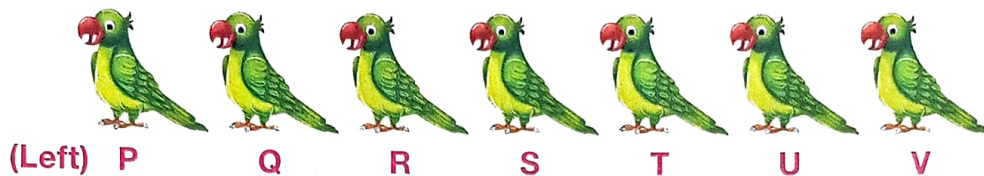

A.   B.   C.   D.
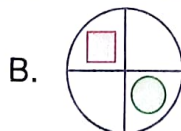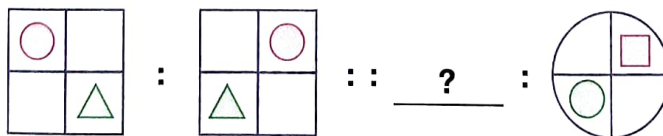
SPACE FOR ROUGH WORK

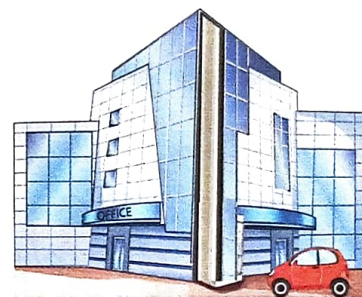**6** There are _____ rectangles in the given figure.

A. 4   B. 3   C. 6   D. 5

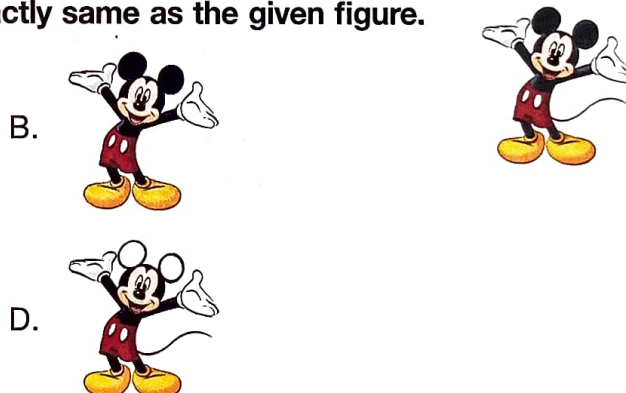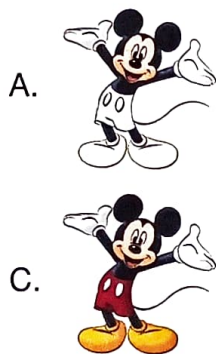**7** If parrot R is removed from the given arrangement, then parrot _____ is fifth from the left end.

(Left) P   Q   R   S   T   U   V

A. S   B. U   C. V   D. T

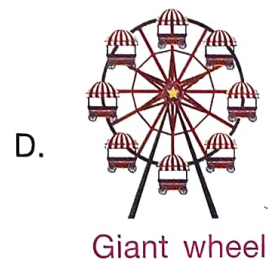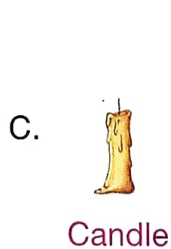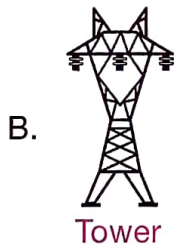**8** Car is parked _____ the building.

A. Inside

B. Outside

C. Above

D. Below

9 Select a figure from the options which is exactly same as the given figure.

A.

B.

C.

D.

10 Which of the following is the SHORTEST?

A. Building   B. Tower   C. Candle   D. Giant wheel

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11 There are ____ MORE circles than triangles in the given picture.

A. 2

B. 3

C. 4

D. 0

12 Which of the following is HEAVIER than 🥭 ?
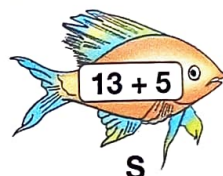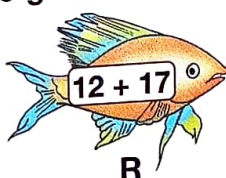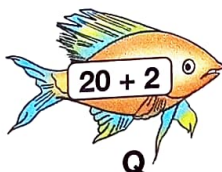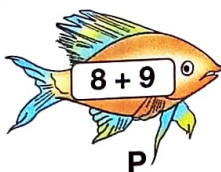
A. Blueberry

B. Litchi

C. Tomato

D. Watermelon

13 Arrange the numbers on the fish from the greatest to the smallest.

P. 8 + 9

Q. 20 + 2

R. 12 + 17

S. 13 + 5

A. P, S, R, Q

B. S, R, Q, P

C. Q, S, R, P

D. R, Q, S, P

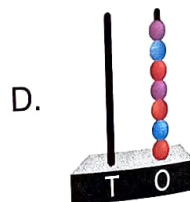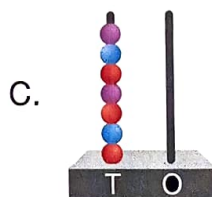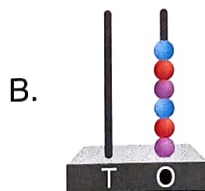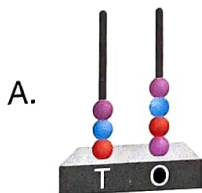**14** Which of the following months has 31 days?

A. January

B. May

C. August

D. All of these

15 Which of the following abacuses shows the number of apples shown in the given basket?

A.

B.

C.

D.

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16 Rashi needs to buy a teddy bear and a chair. How much does she need to pay?

Chair ₹ 45   Lamp ₹ 30   Rocking horse ₹ 70   Teddy bear ₹ 20   Duck ₹ 20

A. ₹ 70   B. ₹ 80   C. ₹ 40   D. ₹ 65

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17 If ☐ = 1 unit, then the height of given panda is _____.

A. 5

B. 6

C. 7
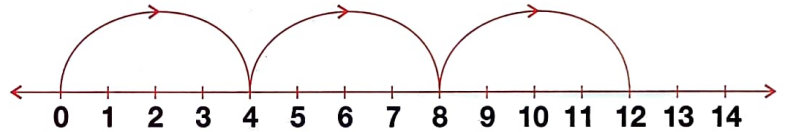
D. 4

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18 How many tomatoes should be uncrossed to show 7 tomatoes crossed in the given picture?

A. 6   B. 5   C. 4   D. 3

---

19 The given number line shows _____.

A. Counting by 2's

B. Counting by 4's

C. Counting by 3's

D. Counting by 1's

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

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20 Which of the following options best describes the given addition sentence?

'3 + 2'

A.

B.

C.

D.

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21 Nikita bought the following items.

₹15   ₹63

How much total amount did she pay?

A. ₹ 68   B. ₹ 63   C. ₹ 58   D. ₹ 78

22 There are 🐊🐊🐊🐊🐊🐊🐊 in a pond. 🐊🐊 jumped out of the pond. Which number sentence represents the number of frogs left in the pond?

A. 7 – 3 = 4   B. 7 – 2 = 5   C. 7 – 2 = 3   D. 7 – 2 = 1

23 Kanika has 🧢🧢🧢🧢🧢🧢🧢. Mohit has 🧢🧢🧢.
How many total caps they both have together?

A. 10   B. 11   C. 15   D. 12

24 Priyanka made the given object using cardboard.
The name of the shape of object she made is _____ .

A. Cuboid   B. Sphere   C. Cube   D. Cylinder

25 Kartik has a ribbon of length 9 ✋ and Priya has a ribbon of length 7 ✋ . Who has longer ribbon and by how much?

A. Kartik, 3 ✋   B. Priya, 2 ✋   C. Kartik, 2 ✋   D. Priya, 3 ✋

26 In a certain week, Rishi ate 5 chocolates, Bhumi ate 8 chocolates and Manav ate 6 chocolates. Who ate maximum number of chocolates in that week?

A. Manav   B. Bhumi   C. Rishi   D. Can't say

27 Which of the following activities by a child generally takes the longest duration of time?

A.
Drinking water

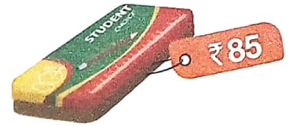B.
Studying

C.
Wearing shoes

D.
Brushing

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28 Navya has   with her. How much more money does she need to buy the given geometry box?

A. ₹ 25   B. ₹ 5   C. ₹ 10   D. ₹ 15

29 Sakshi bought 78 pencils. She distributed 35 pencils amongst the poor children and gave 12 pencils to her friends. How many pencils are left with her?

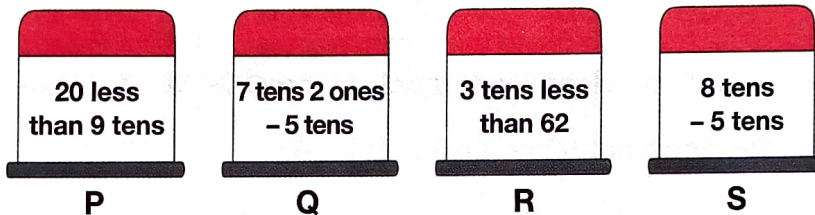A. 31   B. 29   C. 33   D. 43

30 There are 15 fishes in an aquarium. Sahil put 23 more fishes in the same aquarium. How many total fishes are there in the aquarium?

A. 28   B. 38   C. 35   D. 42

ACHIEVERS SECTION

31 Arrange the following in descending order and select the CORRECT option.

P	Q	R	S
20 less than 9 tens	7 tens 2 ones – 5 tens	3 tens less than 62	8 tens – 5 tens

A. Q, S, R, P   B. P, S, R, Q   C. Q, P, R, S   D. P, R, S, Q

32 Match the objects given in Column-P with their costs given in Column-Q and select the CORRECT option.

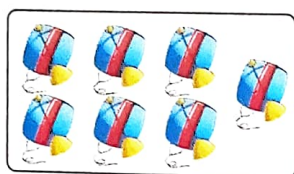Column-P   Column-Q

(p) ₹82   (1)

(q) ₹95   (2)

(r) ₹70   (3)

A. (p)-(2); (q)-(1); (r)-(3)   B. (p)-(3); (q)-(2); (r)-(1)

C. (p)-(3); (q)-(1); (r)-(2)   D. (p)-(2); (q)-(3); (r)-(1)

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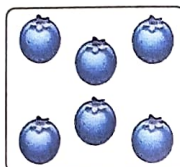
33 Which of the following sets has SAME number of objects?
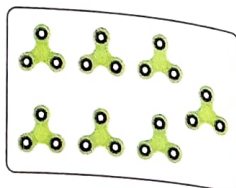

P   Q   R   S

A. Only Q and R   B. Only P and S   C. Only P, Q and S   D. All P, Q, R and S

34 Fill in the blanks and select the CORRECT option.

(p) If yesterday was Monday, then tomorrow will be _____.

(q) If tomorrow will be Sunday, then the day before yesterday was _____.

	(p)	(q)
A.	Thursday	Friday
B.	Wednesday	Friday
C.	Thursday	Thursday
D.	Wednesday	Thursday

35 Observe the given picture carefully and select the CORRECT option.

A. is the heaviest among the given objects.

B. is lighter than .

C. is heavier than .

D. Both B and C

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