I M O

SOF INTERNATIONAL MATHEMATICS OLYMPIAD 2019-20

CLASS 1

QUESTION PAPER SET B
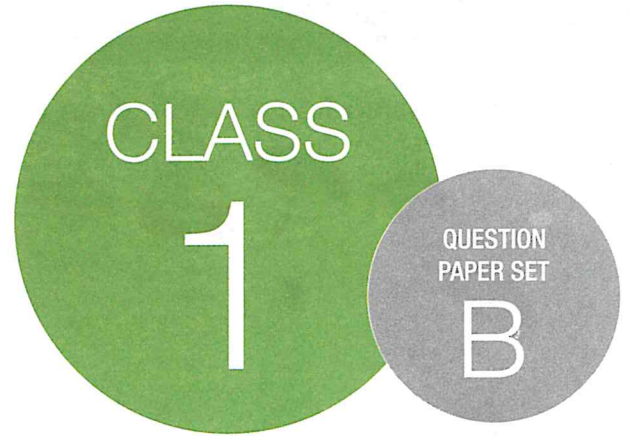
Name:..

Section:............ SOF Olympiad Roll No.:... Contact No.:...

Guidelines for the Candidate

1. Please check your Name, Class and Section on the OMR sheet provided to you. In case, OMR sheet with your name is missing, please fill in information about yourself in the blank OMR sheet provided before start of exam.

2. Please fill in your **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: Sonia had 80 sweets. She gave 15 sweets to Danish and 15 sweets to Megha. How many sweets are left with her?

   A. 50   B. 30   C. 60   D. 40

   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 on this page before attempting the paper.

S O F

SCIENCE OLYMPIAD FOUNDATION
Inspiring Young Minds Through Knowledge Olympiads

1. Find the missing figure in the given figure pattern.

   A. (umbrella)

   B. (boat)

   C. (top)

   D. Can't be determined

2. If (△) is to (triangle with circle), then (diamond with rectangle) is to _____.

   A. (rectangle with diamond)   B. (square with diamond)   C. (rectangle with triangle)   D. (square with circle)

3. If Tamanna's race competition is on second Tuesday of November 20XX, then on which date will her race competition be held?

   A. 7th November

   B. 14th November

   C. 21st November

   D. 22nd November

NOVEMBER				20XX		
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

4. _____ groups of 3 pandas each can be formed from the given pandas.

   A. 7   B. 3   C. 6   D. 5

5. Select the odd one out.

   A. (pizza)   B. (chocolate)   C. (juice)   D. (chips)

6. Which of the following costs the most?

   A. (scissors) ₹ 30   B. (sunglasses) ₹ 80   C. (watch) ₹ 65   D. (backpack) ₹ 95

SPACE FOR ROUGH WORK

7. Monkey _____ is fifth from the right end.

(Left)   P   Q   R   S   T   U   V
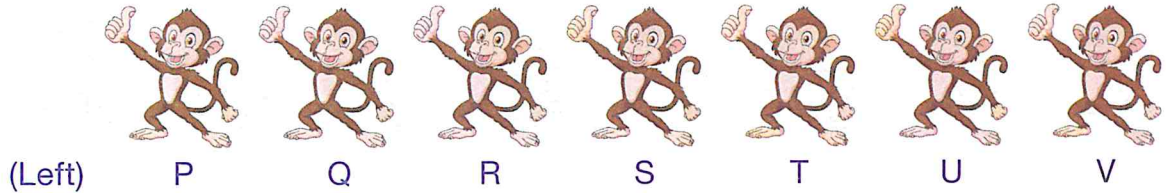
A. Q   B. T   C. S   D. R

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

      :   ::   :   ?

A.   B.   C.   D.

9. Which of the following objects can roll but not slide?

A.   B.   C.   D.

10. There are _____ children playing in the garden.
    A. 10
    B. 9
    C. 11
    D. 8

MATHEMATICAL REASONING

11. Which of the following number lines shows the counting by 5's?

A.   B.

C.   D.

SPACE FOR ROUGH WORK

12. Which of the following is the CORRECT subtraction sentence for the given picture?
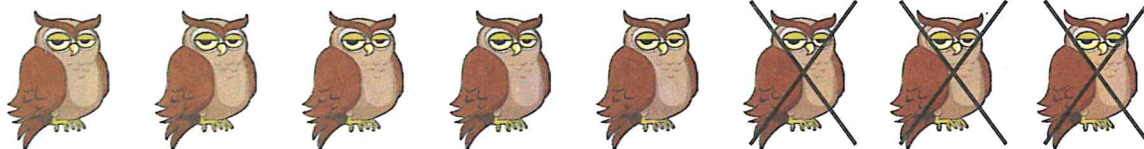
A. 8 – 4   B. 8 – 3   C. 5 – 3   D. 8 – 2

13. The difference between the greatest and the smallest number on the given bulb is _____.
    A. 35
    B. 32
    C. 27
    D. 29
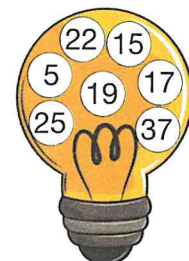
14. Which of the following sets has more objects than the given set of dots?

A.   B.

C.   D.
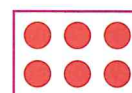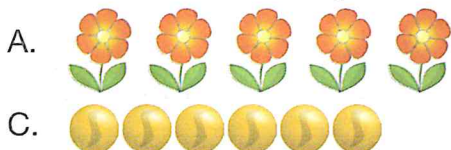
15. The length of the ladder is _____ ●.
    A. 5
    B. 10
    C. 8
    D. 9
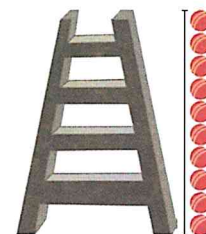
16. Which of the following cars shows the smallest number?

P   Q   R
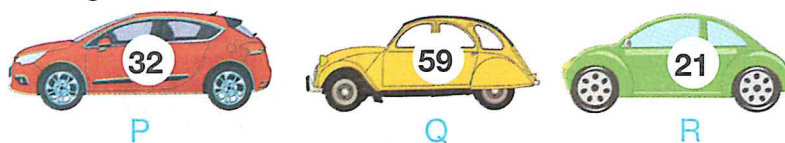
A. R   B. Q   C. P   D. Can't say

17. Which of the following shapes is not shown in the picture?
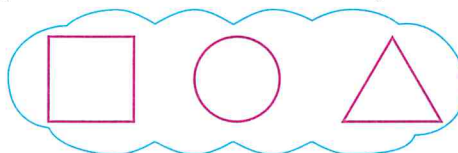
A. Rectangle   B. Circle   C. Triangle   D. Square

SPACE FOR ROUGH WORK

18. Which of the following is the heaviest?
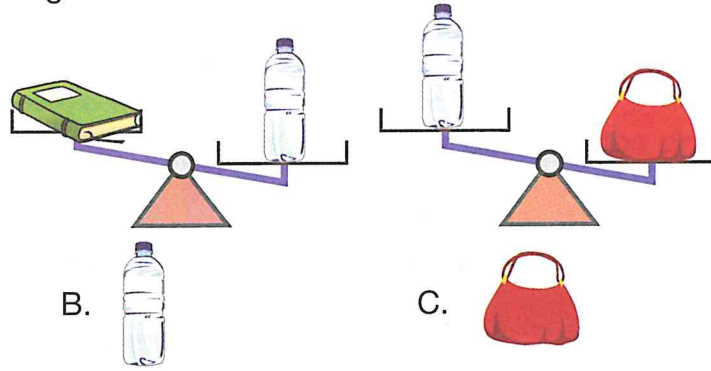
A.   B.   C.   D. Can't say

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19. Find the values of P and Q respectively.

$$\begin{array}{ccc} & P & 2 \\ + & 3 & Q \\ \hline & 4 & 3 \end{array}$$

A. 3, 1   B. 1, 1
C. 2, 1   D. 1, 3

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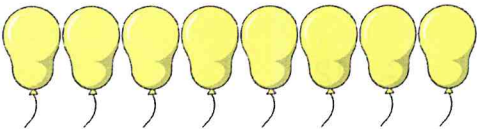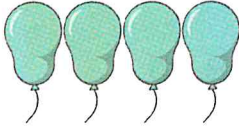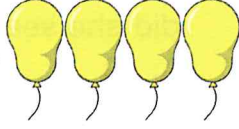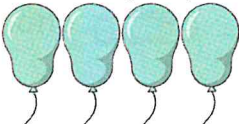
20. Which of the following number names represents the given number of birds?

A. 1 tens 6 ones

B. 8 tens 1 ones

C. 6 tens 1 ones

D. 1 tens 8 ones
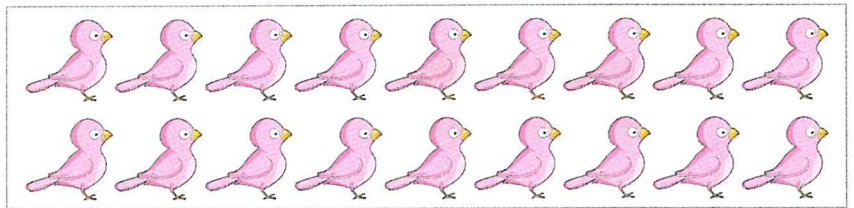
EVERYDAY MATHEMATICS

21. Manish had and . He gave

and to his sister. How many balloons are left with him?

A. 8   B. 4   C. 6   D. 7

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22. In a school, class-1 has 20 and 15 . Total number of students in class-1

is _____.

A. 38   B. 40   C. 35   D. 30

SPACE FOR ROUGH WORK

23. Amit wants to buy a cricket bat which is 30 cm shorter than his height. His height is 120 cm. What will be the length of the bat?

    A. 80 cm   B. 60 cm   C. 100 cm   D. 90 cm

24. Which of the following activities do you do in the night?

    A.   B.   C.   D.

25. Vinay lost 6 marbles from the jar of 18 marbles. How many marbles are left in the jar?

    A. Thirteen
    B. Twelve
    C. Eleven
    D. Fourteen

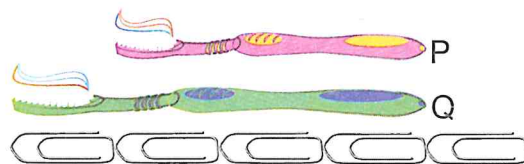26. Ria had . If the cost of an eraser is ₹ 5, then how many erasers can she buy?

    A. 3   B. 5   C. 10   D. 6

27. Sanchi saw 2 , 3 and 5 in a zoo. How many animals did she see in total?

    A. 8   B. 5   C. 12   D. 10

28. Sahil has toothbrushes P and Q. Toothbrush P is _____ shorter than toothbrush Q.

    A. 2
    B. 3
    C. 1
    D. 4

29. Hiten wants to buy . He has ₹ 40. How much more amount of money does he need to buy the toy?

    A. ₹ 15   B. ₹ 10   C. ₹ 5   D. ₹ 12

SPACE FOR ROUGH WORK

30. Kirti has 18 mangoes. She puts them equally into 3 baskets.
Each basket has _____ mangoes.
A. 3
B. 5
C. 6
D. 7

31. Match the following and select the correct option.

Column A

P. 2 tens 4 ones – 11 ones

Q. 3 tens 4 ones – 2 tens 2 ones

R. 4 tens – 20 ones

Column B

(1) 12

(2) 20

(3) 13

A. P-(2); Q-(1); R-(3)
B. P-(1); Q-(2); R-(3)
C. P-(3); Q-(1); R-(2)
D. P-(3); Q-(2); R-(1)

32. Which of the following abacuses shows 8 more than 51?

A.   B.   C.   D.
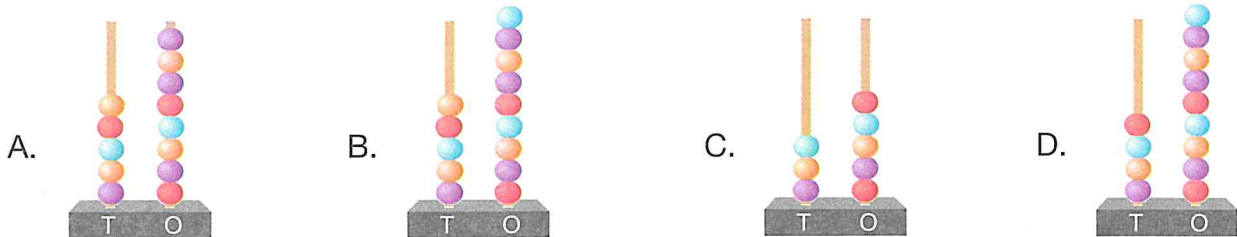
33. Armaan had ₹50, ₹20, ₹5, ₹10 . He bought the following items.

How much amount is left with him?

₹10   ₹20   ₹30
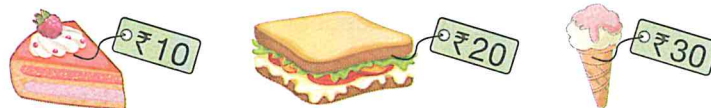
A. ₹ 15   B. ₹ 20   C. ₹ 25   D. ₹ 35

SPACE FOR ROUGH WORK

34. Weights of some items are shown here. Read the statements carefully and state 'T' for true and 'F' for false.

P - Packet of rice is the heaviest item.

Q - Weight of packet of biscuit and packet of sugar is same.

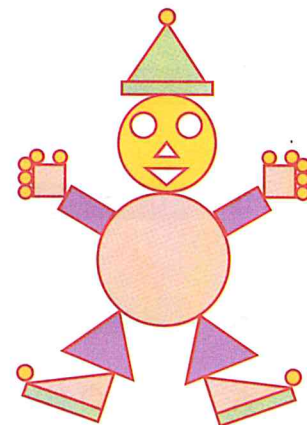|	P	Q
A.	T	T
B.	F	T
C.	T	F
D.	F	F

Biscuit 1 kg	Salt 1 kg	Sugar 2 kg	Rice 5 kg

35. There are __P__ circles, __Q__ triangles and __R__ squares in the given figure.

	P	Q	R
A.	15	18	3
B.	17	7	2
C.	15	5	4
D.	17	5	3

SPACE FOR ROUGH WORK