SOF
SCIENCE OLYMPIAD FOUNDATION

I M O
SOF INTERNATIONAL MATHEMATICS OLYMPIAD

Total Questions : 35   Time : 1 hr.

PATTERN & MARKING SCHEME				
Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	10	10	10	5
Marks per Ques.	1	1	1	2

SYLLABUS

Section – 1 : Patterns, Odd One Out, Measuring Units, Geometrical Shapes, Analogy, Ranking Test, Grouping of Figures, Embedded Figures, Coding-Decoding.

Section – 2 : Numerals, Number Names and Number Sense (3-Digit Numbers), Computation Operations, Length, Weight, Capacity, Time, Temperature, Money, Lines, Shapes and Solids, Pictographs, Patterns.
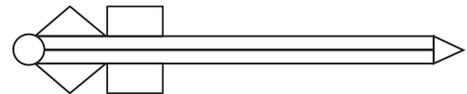
Section – 3 : Syllabus same as Section 2.

Section – 4 : Higher Order Thinking Questions - Syllabus as per Section 2.

LOGICAL REASONING

1. The number of triangles in the given figure is _____.

(A) 3   (B) 4

(C) 5   (D) 0
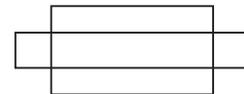
2. What will come next in the sequence?

(A) [triangle]   (B) [triangle with circle]   (C) [triangle with square]   (D) [square]

3. When arranged in order from the smallest to the biggest, which number will be at last position in the sequence?

21, 12, 79, 63, 36, 47

(A) 79   (B) 36   (C) 47   (D) 12

4. How many sleeping lines are there in the given figure?

(A) 2   (B) 5

(C) 4   (D) 6

MATHEMATICAL REASONING

5. The largest two digit number is _____.
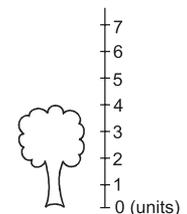
(A) | 0 | 1 | (B) | 1 | 0 | 0 | (C) | 9 | 0 | (D) | 9 | 9 |

6. The height of the tree is _____.

(A) 6 units

(B) 4 units

(C) 5 units

(D) 7 units

7. 5 Hundreds, 1 ones and 5 tens will make _____.
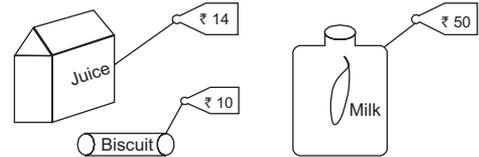
(A) 551 (B) 510 (C) 155 (D) 515

8. There are 3 stars on a flag. There are 7 such flags. How many stars are there altogether?

(A) 20 (B) 21 (C) 28 (D) 27

9. What is the total cost of the food items displayed?
(A) ₹ 74
(B) ₹ 84
(C) ₹ 64
(D) ₹ 70

EVERYDAY MATHEMATICS

10. There are 684 pupils in a school. 297 of them are boys. How many girls are there in the school?

(A) 388 (B) 387 (C) 487 (D) 587

11. Anupriya had ₹ 90. She bought a pair of scissors for ₹ 60. How much amount she has now?

(A) ₹ 30 (B) ₹ 40 (C) ₹ 35 (D) ₹ 25

12. Mrs. Tanuja bakes 20 cup cakes. If she packs 4 cup cakes in one box, how many boxes does she need to pack all the cakes?

(A) 7 (B) 6 (C) 5 (D) 3

13. There are 15 cats, 18 dogs and 13 rats. How many animals are there altogether?
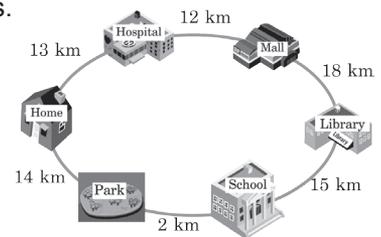
(A) 45 (B) 46 (C) 64 (D) 38

ACHIEVERS SECTION

14. Saurabh travelled from his Home to the Library. He took two routes.
1st route : Home → Hospital → Mall → Library
2nd route : Home → Park → School → Library
Which route is the longest and by how much distance?
(A) 1st route, 12 km
(B) 1st route, 43 km
(C) 2nd route, 12 km
(D) 2nd route, 31 km

15. Identify the 3-digit number.
(A) 652
(B) 630
(C) 952
(D) 645

- The digit on the ten's place of a 3-digit number is 3 more than the digit in its one's place.
- The digit in its hundred's place is double the digit in ten's place.
- The digit in its one's place is (2 tens – 20 ones).

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