SCIENCE OLYMPIAD FOUNDATION

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, Spatial Understanding, Grouping, Analogy, Ranking Test, Problems based on Figures.

Section – 2 : Numerals, Number names, Number Sense (2 digit numbers), Addition, Subtraction, Lengths, Weights and Comparisons, Time, Money, Geometrical Shapes and Solids, Patterns.

Section – 3 : Syllabus as per Section–2.

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

LOGICAL REASONING

1. Kanika, Sonali and Sneha are sitting in a row. Kanika is sitting between Sonali and Sneha. Which of the following is the correct order?

(A)

Kanika	Sneha	Sonali

(B)

Kanika	Sonali	Sneha

(C)

Sneha	Kanika	Sonali

(D)

Sneha	Sonali	Kanika

2. The shape of is looking like a _____.

(A) Cone   (B) Cylinder   (C) Sphere   (D) Cube

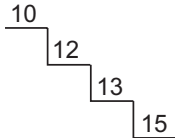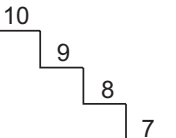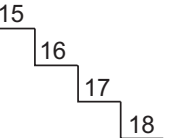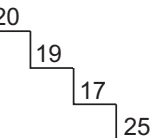**3.** If is related to in some way, then in the same way is related to _____.

(A)   (B)   (C)   (D)

4. Which of the following objects can hold maximum amount of water?

(A)   (B)   (C)   (D)

## MATHEMATICAL REASONING

5. Which of the following shows a correct descending order?

(A) 10 12 13 15   (B) 10 9 8 7   (C) 15 16 17 18   (D) 20 19 17 25

6. A 🐸 can jump two steps at a time. If it is at 5th step, then where will it be after 2 jumps?

(A) ← 0 1 2 3 4 5 6 7 8 9 10 →

(B) ← 0 1 2 3 4 5 6 7 8 9 →

(C) ← 0 1 2 3 4 5 6 7 8 →

(D) ← 0 1 2 3 4 5 6 7 →
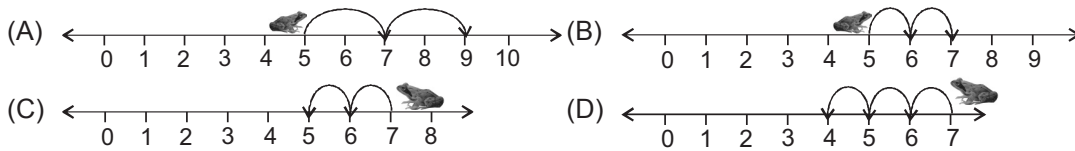
7. Four friends are celebrating their birthdays. The candles on cake show their ages. Who is the eldest?

(A) Ankit   (B) Parul   (C) Ruchi   (D) Anu
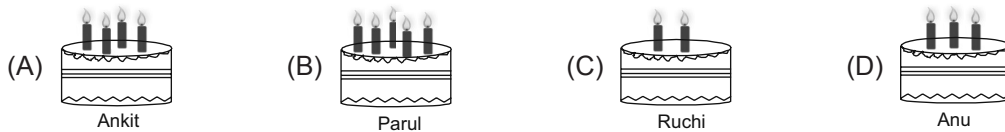
8. Sonali bought the following items.

₹ 10   ERASER ₹ 2   ₹ 5

How much money did she spend?

(A) ₹ 27   (B) ₹ 15   (C) ₹ 12   (D) ₹ 17

9. Which toffee gives the answer smaller than 7?

(A) 2 + 7   (B) 9 − 2   (C) 8 − 2   (D) 5 + 3

EVERYDAY MATHEMATICS

10. Given two baskets shows the number of apples.
Which of the following statements is CORRECT?
(A) Basket X has two <u>more</u> apples than Basket Y.
(B) Basket Y has <u>more</u> apples than Basket X.
(C) Both Baskets X and Y have <u>equal</u> number of apples.
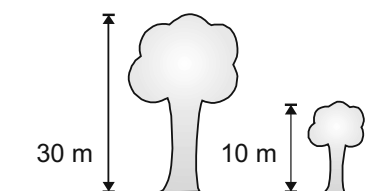(D) Basket Y has one apple <u>less</u> than Basket X.

Basket X   Basket Y

11. A chocolate costs ₹ 25. Jiah has only ₹ 13. How much more money does she need to buy the chocolate?
(A) ₹ 10   (B) ₹ 12   (C) ₹ 8   (D) ₹ 11

12. Chintu has 24 balls. He gives 2 balls to his sister. How many balls does Chintu has now?
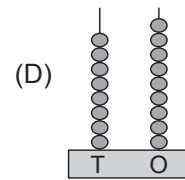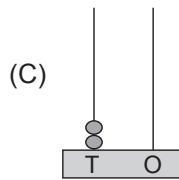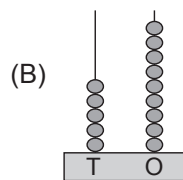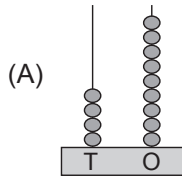(A) 22   (B) 20   (C) 18   (D) 21

13. The total height of both the trees is _____.

30 m   10 m

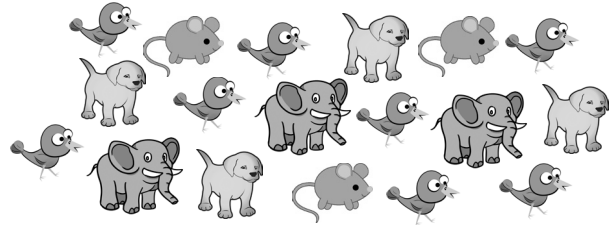(A) 30 m   (B) 40 m   (C) 50 m   (D) 20 m

14. Which abacus represents 20 less than 69?

(A)   (B)   (C)   (D)

15. How many birds are there in the given picture?

(A) 8 tens – 40 ones

(B) 2 tens + 18 ones

(C) 18 ones – 10 ones

(D) 12 ones + 4 tens

SPACE FOR ROUGH WORK

ANSWERS

1. (C) 2. (C) 3. (A) 4. (A) 5. (B) 6. (A) 7. (B) 8. (D) 9. (C) 10. (C) 11. (B) 12. (A) 13. (B) 14. (A) 15. (C)