

SAMPLE PAPER SYLLABUS 2018-19



PATTERN & MARKING SCHEME

(3) Everyday

Mathematics

10

1

(2) Mathematical

Reasoning

20

1



Time : 1 hr.

(4) Achievers

Section

5

3

SOF INTERNATIONAL MATHEMATICS OLYMPIAD SYLLABUS

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Integers, Fractions and Decimals, Exponents and Powers, Algebraic Expressions, Simple Linear Equations, Lines and Angles, Comparing Quantities, The Triangle and its Properties, Symmetry, Congruence of Triangles, Rational Numbers, Perimeter and Area, Data Handling, Visualising Solid Shapes, Practical Geometry.

(1) Logical

Reasoning

15

1

Section – 3 : The Syllabus of this section will be based on the syllabus of Mathematical Reasoning.

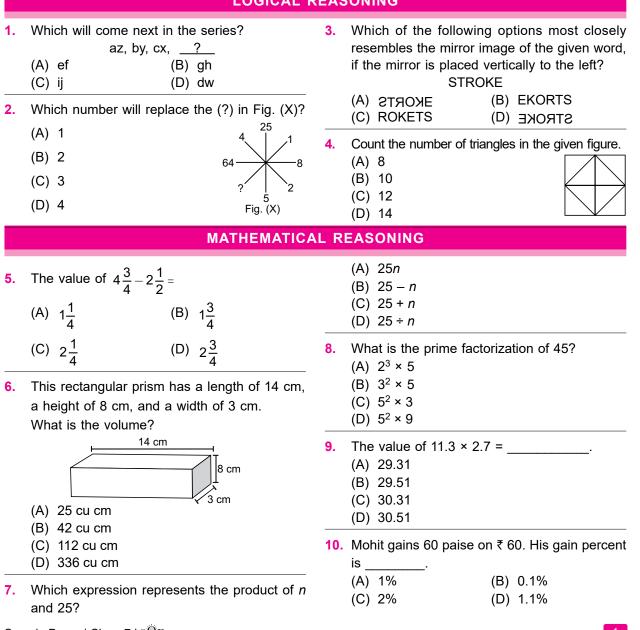
Total Questions : 50

Section

No. of Questions

Marks per Ques.

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



LOGICAL REASONING

EVERYDAY MATHEMATICS

11. Kartik can throw a ball $50\frac{3}{5}$ metres high. Ayan can throw the same ball $48\frac{1}{3}$ metres high. How

much farther can Kartik throw the ball than Ayan?

- (A) $2\frac{2}{15}$ m (B) $2\frac{4}{15}$ m (C) $2\frac{3}{5}$ m (D) $2\frac{4}{5}$ m
- 12. In a parking lot, 1 out of every 8 cars is blue. What percent of the cars in this lot are blue? (A) 1.25% (B) 7%
 - (C) 9% (D) 12.5%

 A duck flew at speed of 18 km per hour for 3 hours, then at speed of 15 km per hour for 2 hours. How

far did the duck fly in all? $\left(Speed = \frac{Distance}{Time} \right)$ (A) 69 km (B) 75 km (C) 81 km (D) 84 km

ACHIEVERS SECTION

14. In a quiz, 40 prizes consisting of 1st and 2nd prizes only are to be given. 1st and 2nd prizes are worth ₹ 2500 and ₹ 1500, respectively. If the total prize money is ₹ 85,000, then

- (i) The equation formed is
- (ii) The number of 1st prizes are
- (iii) The number of 2nd prizes are

(i)

- (ii) (iii)
- (A) 2500x + 1500(40 x) = 85000 25 15
- (B) 2500x 1500(40 x) = 85000 36 4
- (C) $2500x \times 1500(x 40) = 85000$ 20 20
- (D) 2500x 1500(x 40) = 85000 15

15. Study the given statements.

Statement - I : e and h are supplementary angles. Statement - II : c and g are equal angles.

Which of the following options is correct?

- (A) Both statement-I and statement-II are true.
- (B) Statement-I is true and statement-II is false.
- (C) Statement-I is false and statement-II is true.
- (D) Both statement-I and statement-II are false.

SPACE FOR ROUGH WORK

25

ANSWERS