

# **SAMPLE PAPER SYLLABUS 2017-18**



**CLASS** 



Total Questions : 50				Time : 1 hr.
PATTERN & MARKING SCHEME				
Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	15	20	10	5
Marks per Ques.	1	1	1	3

#### SYLLARUS

Section - 1: Verbal and Non-Verbal Reasoning.

Section - 2: Knowing our Numbers, Whole Numbers, Playing with Numbers, Basic Geometrical Ideas, Understanding Elementary Shapes, Integers, Fractions, Decimals, Data Handling, Mensuration, Algebra, Ratio And Proportion, Symmetry, Practical Geometry

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

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

#### LOGICAL REASONING

Rearrange the following letters to make a single word and then choose the category to which it belongs.

FGOR

- (A) City
- (B) Animal
- (C) Vegetable
- (D) Person
- Joy wants to save ₹ 50 to buy a pair of roller blades. He plans to save ₹ 2 in the first month, ₹ 4 in the second month, ₹ 6 in the third month, and ₹ 8 in the fourth month.

Month	Amount saved during month	Total savings
1	₹2	₹2
2	₹4	₹6
3	₹6	₹12
4	₹8	₹20
•	•	•
•	•	•
•	•	•

If Joy continues this savings pattern, how many months will Joy take to save ₹ 50 ?

- (A) 5 months
- (B) 7 months
- (C) 9 months
- (D) 13 months

3.	$\triangle$ = $\square$ $\triangle$ $\square$ , $\triangle$ $\square$ = $\bigcirc$ $\bigcirc$ , $\triangle$
	- 50

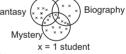
Using the diagram above, which of the following statements is true?

(C)

- According to the diagram,

how many students Fantasy have more than one

favourite type of book?

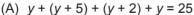


Favourite Book Types

- (A) 3
- (B) 5
- (C) 7
- (D) 8

#### **MATHEMATICAL REASONING**

In Parul's garden, there are 25 rows of vegetables. She has five more rows of peppers than tomatoes and two fewer rows of cucumbers than tomatoes. If y represents the number of rows of tomatoes in the garden, which number sentence can be used to find how many rows of each vegetable were planted?



(B) 
$$(y + 5) + y = 25$$

(C) 
$$(y + 5) + (y - 2) = 25$$

(D) 
$$(y + 5) + (y - 2) + y = 25$$

6. Which of the following figures have at least two lines of symmetry?



- (A) Only P
- (B) Both P and Q
- (C) Both Q and R
- (D) P, Q, R and S
- 7. Subtract 29.375 from the sum of 85.75 and 5.9.
  - (A) 62.275
- (B) 63.275
- (C) 64.275
- (D) 65.275
- The five-day forecast for the South Pole lists the low temperatures (in Fahrenheit) as -24°, -28°, -29°, -25°, and -30°. Which choice shows the temperatures in order from the lowest to the highest?

- (A) -24°, -25°, -28°, -29°, -30°
- (B) -30°, -28°, -29°, -25°, -24°
- (C) -30°, -29°, -28°, -25°, -24°
- (D) -30°, -29°, -28°, -24°, -25°
- What is the value of the given expression?  $3 + 3 \times 3(4 + 3)$ 
  - (A) 38
- (B) 42

- (C) 45
- (D) 66
- 10. Mohit is selling candy bars. He has chocolate bars, nut bars, and mint bars. If a customer buys two bars, and the bars are not of the same type. how many different combinations are possible?
  - (A) 3
- (B) 6
- (C)9
- (D) 12

## **EVERYDAY MATHEMATICS**

- 11. Vinita can type 28 words per minute. At this rate, how many words can Vinita type in 5.5 minutes?
  - (A) 154
- (B) 157
- (C) 159
- (D) 162
- 12. At a school, there are 704 desks to place into 22 classrooms. If the same number of desks is placed in each classroom, how many desks will be there in each room?
- (A) 32
- (B) 34
- (C) 42
- (D) 44
- 13. A vessel has 5 litres 120 millilitres of mango shake. How many glasses each of 40 ml capacity, can be filled with it?
  - (A) 122
- (B) 130
- (C) 118
- (D) 128

### **ACHIEVERS SECTION**

- 14. Fill in the blanks:
  - The opposite sides of a parallelogram are P and Q
  - (ii) A quadrilateral having only one pair of opposite sides parallel is called a R.
  - (iii) A parallelogram having all the sides equal is called a S

Р O R

- Parallel (A) Equal Rectangle Rhombus
- (B) Equal Non-Trapezium Kite parallel
- (C) Equal Parallel Trapezium Rhombus
- (D) Equal Parallel Trapezium Kite

15. Study the statements given below and choose the correct answer.

Statement 1: Numbers having more than two factors are known as composite numbers.

Statement 2: A number for which sum of all its factors is equal to twice the number is called a perfect number.

- (A) Statement-1 is true and statement-2 is false.
- (B) Statement-1 is false and statement-2 is true.
- (C) Both statements are true.
- (D) Both statements are false.

SPACE FOR ROUGH WORK