

SAMPLE PAPER SYLLABUS 2019-20



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

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.

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

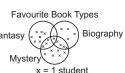
If Joy continue this savings pattern, then how many months will Joy take to save ₹ 50 ?

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

3.	<u> </u>
	= 50

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

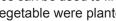
-)</
- (C)
- According to the diagram, how many students have more Fantasy than one favourite type of book?



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

MATHEMATICAL REASONING

5. 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, then which number sentence can be used to find how many rows of each vegetable were planted?



(A)
$$y + (y + 5) + (y + 2) + y = 25$$

(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
- 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°
- 9. 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, then 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, then 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:
 - (i) The opposite sides of a parallelogram are __P__ and __Q__.
 - (ii) A quadrilateral having only one pair of opposite sides parallel is called a <u>R</u>.
 - (iii) A parallelogram having all the sides equal is called a <u>S</u>.
 - Р
- Q
- R
- S
- (A) Equal Parallel 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