CADET COLLEGE PETARO

SYLLABUS OUTLINE

MATHEMATICS - VII

1. Sets.
2. Whole Numbers.
3. Factors and Multiples
4. Integers
5. Simplifications
6. Ratio and Proportion
7. Financial Arithmetic
8. Introduction to Algebraic
9. Linear Equations
10. Geometry
11. Perimeter and Area
12. Three Dimensional Solids
13. Information Handling

CADET COLLEGE PETARO

CLASS–VII

MODEL TEST PAPER

MATHEMATICS

Time: 1 Hour **Max. Marks: 100**

SECTION-A (OBJECTIVE)
[20 MARKS]

Q.1.a Choose the correct answer for each from the given options.

i. Line segment AB is denoted by:

(A) $\overrightarrow{AB}$ (B) $\overleftrightarrow{AB}$ (C) $\overline{AB}$ (D) $\overrightarrow{BA}$

ii. Bisector divided a line segment into _____ equal parts.

(A) Two (B) Three (C) four (D) five

iii An algebraic sentence involving the sign of equality " = " is called

(A) Equation (B) Expression (C) Algebraic Sentence (D) Identity

iv The word "percent" means out of _____.

(A) Terms (B) Hundred (C) Total value (D) None

v To find the ratio between two quantities it is necessary that they must be of the _____ kind.

(A) Same (B) Different (C) Equal (D) Both (A) and (C)

vi In BODMAS, M stands for _____.

(A) Product (B) Multiplication (C) Both (a) and (b) (D) All of these

vii Sum of two negative integers is always _____ integer.

(A) Positive (B) Negative (C) Both (A) and (B) (D) none

viii Product of two non-zero numbers =

(A) LCM (B) HCF (C) HCF × LCM (D) None

ix The Predecessor of 1 in the set of whole numbers is_____.

(A) 3 (B) 1 (C) 2 (D) 0

x The smallest natural number is _____.

(A) 0 (B) 1 (C) 100 (D) 3

Q.1.b Fill in the blanks

1 Surface area of cuboid =_____

2 Area of trapezium is_____

3 $S.P - C.P =$_____

4 $Profit\ \% =$_____

5 Cube has _____ edges

6 The bracket { } is called_____

7 Division by _____ is not possible.

8 Cube has_____ vertices.

9 Product of a variable x with itself is _____

10 Product of means = Product of _____

SECTION-A (OBJECTIVE)
[80 MARKS]

NOTE: ATTEMPT ALL QUESTIONS. EACH QUESTION CARRIES 10 MARKS.

Q.1 **(a)** Define set with example.

(b) Give reason why following collections are not set.

(i) $\{d, o, o, r\}$ (ii) $\{a, f, d, a\}$

(iii) Set of beautiful birds (iv) Set of good players

Q. 2 Arif deposited Rs 45800 in his bank account. After a month he withdrew Rs 3500 from it. How much money was left in his account?

OR Find the greatest 5 digit number which is exactly divisible by 75.

Q.3 Simplify: **(i)** $3\frac{1}{2} + \left\{\left(10\frac{2}{5} - 5\frac{1}{3}\right) \div 3\frac{2}{3}\right\} - 1\frac{1}{5}$. (ii) $[x + x + (y + y + 2x)]$.

Q.4 Find the mean proportion in the following.

(i) 15 *and* 60 **(ii)** 44 *and* 99

OR

Rehana can write 26 words in 2 minutes. How much time she will take to write 325 words?

Q.5 **(a)** The 18% of the distance between two cities is 36 km. Find the distance between two cities.

(b) Imran obtained 549 marks out of 800 and his sister obtained 459 out of 600. Whose performance is better?

Q.6 **(a)** Add: $12xy + 3x + 4y, \quad 5x + 6y + 8xy$

(b) Subtract: $x + 3y + 5z$ from $2x - 15y - 9z$.

Q.7 Solve any two of the following equations.

(i) $1024y - 512 = 2048$ **(ii)** $\frac{u+1}{2} = 5$ **(iii)** $\frac{3x+4}{8} = \frac{5x+6}{4}$

OR

The price of a toy was decreased by Rs.7. If new price is Rs.**25**. find the original price.

Q.8 **(a)** Construct a triangle XYZ in which $m\angle Z = 90^0, m\overline{XY} = 7\ cm,\ m\overline{XZ} = 5cm$

(b) Draw a line segment measuring 7.6 cm and draw its right bisector. Then bisect its each part into equal parts.