CADET COLLEGE PETARO

Model Test Paper

CLASS-VIII

MATHEMATICS

Time: 1 Hour	Max Marks: 100	Passing Marks: 50

SECTION-I MARKS- 68

QNo.1: Write TRUE or FALSE for each of the following statements. Each part carries 2 marks.

(i) The mid point of the group (50- 54) is 52. (_____)

(ii) Surface area of the cylinder I = $2\pi r(r+h)$. (_____)

(iii) The sum of the measures of the three angles of a triangle is 360^0. (_____)

(iv) $x^0 + 1 = 2$ (_____)

(v) $-5ab + c \div 3 + c$ has four terms. (_____)

(vi) Circumference of a circle is = $2\pi d$ (_____)

(vii) A quadrilateral with a pair of opposite sides parallel is called trapezium. (_____)

(viii) The union of two sets A and B, is a set which contains all elements of A and B (_____)

(ix) The solution of $\frac{x}{2} - 5 = 12$ is 22. (_____)

(x) If the measure of one angle of a right triangle is 30^0 then the measure of other angle is (_____)

QNo.2: FILL IN THE BLANKS. Each part carries 2 marks.

(i) If 2 : a = 15 : 30, then a = _____.

(ii) The length of the diameter of a circle is 7cm then circumference of the circle is __.

(iii) $\{4,6,8,9,10\}$is the set of first five_____ numbers.

(iv) The first and last elements of a proportion are called the _____

(v) If $a + b = b + a$, then this property is called _____

(vi) The equality of two ratios is called a _____.

(vii) Product of 3a and a^2+b^2 = _____.

(viii) Open sentences which involve the symbols "$<$" or "$>$ "are called _____

(ix) If one side of a circle is 2x cm then its perimeter =_____

(x) 6 is added to a number the sum is 9. What is the number?_____

QNo.3: Select the correct answer . Each part carries 2 marks.

(i) If A :B = 5 :6 and B :C = 2 :7, then A :C = 10 :7 .

(a) 5:7 (b) 7:10 (c) 10:7 (d) none

(ii) $A = \{\ \}, B = \{1,2,3\}$ then $A \cup B =$ _____{ }

(a) { } (b) {1,2,3} (c) {2,3} (d) {1,3}

(iii) The diameter of a circle = 2 _____

(a) Circumference (b) Radius (c) Sector (d) none

(iv) $3x - 5 = x + 7\ then\ x =$

(a) 12 (b) 4 (c) 6 (d) none

(v) $x^2 - 2x + 1$ is a ---------- degree polynomial

(a)first (b) second (c) third (d) none

(vi) In a right angle triangle, the sum of two ----------angles will be 90^0 degrees.

(a) obtuse (b) acute (c) supplement (d) none

(vii) Sum of first two composite numbers which are also odd, is _____

(a) 5 (b) 8 (c)14 (d) 24

(viii) The sum of 3a and $a^2 + b^2$ is _____

(a) $3a + b^2$ (b) $3a^3b^2$ (c) $3a^3+3b^2$ (d) none

(ix) $|-4| + \sqrt{25} =$ _____

(a) 1 (b) 4 (c) 9 (d) none

(x) Information handling is a part of _____

(a) Mathematics (b) Statistics (c) Civics (d) Physics

(xi) A floor has an area of 100 square meters. What is the perimeter of floor?

(a) 10cm (b) 20cm (c) 40cm (d) none

(xii) $(15a^2 - 10\ ab) \div 5a =$ _____

(a) $3a-2b$ (b) $2a-3b$ (c) 3a+2b (d) $25a^3b$

(xiii) The algebraic expression $3x^2y - 4xy + xy^2$ has _____ terms.

(a) Two (b) Three (c) Four (d) Eight

(xiv) Set of first three prime number is__

(a) {1,2,3} (b) {12,5} (c) {2,3,4} (d) {2,3.5}

SECTION-II MARKS-32

Note: ***Attempt any FOUR questions from this section. Each question carries 8 marks.***

QNo.4 The diameter of a cylindrical tank is 14m long and its volume is 1540m.Find its height.?

QNo.5 Solve the equation : $3x + \frac{3}{8} = 2x + \frac{2x}{3}$

QNo.6 Find the quotient of : $(4a^2 - 12ab + 9b^2) \div (2a - 3b)$

QNo.7 A lamp bought for Rs.1800, was sold at a loss of 5%. Find its selling price.

QNo.8 Draw a parallelogram KLMN, where m $\overline{KL}$ = 5cm, m $\overline{LM}$=6.5 cm and m $\angle K = 70^0$

(*Don't write steps of construction*)

QNo.9 Amjad and Babar earned Rs.40000/- During the year in a business. If their investment was in the ratio 3**:**5, find each one's share in the profit.

(THE END)