

CADET COLLEGE PETARO
MODEL TEST PAPER FOR ADMISSION TO CLASS-VIII
MATHS

Time Allowed : 01 Hour

Max. Marks: 100

Passing Marks: 50

SECTION I (Marks-70)

Q.No.1 Write True or False . Each part carries 02 marks.

(30)

- (i) $-a \times 2(-b)^2 + ab^2 = 3ab^2$ _____
- (ii) Set can be written in two ways. _____
- (iii) $a=2$, $b=-3$, $c=1$, then $abc - b^2 = -15$ _____
- (iv) $A = \{1,2,-1\}$, $B = \{ \}$, then $A \cap B = \{ \}$ _____
- (v) $a + (b + c) = (a + b) + c$ represents associative property of addition. _____
- (vi) In the polynomial $-8z^2$, the co-efficient is 8 . _____
- (vii) The degree of polynomial xy is 1 . _____
- (viii) $-3a-3b = -5ab$ _____
- (ix) $a^7 \div (a^2 + 3a^2) = 5a^5$ _____
- (x) The solution set of $2x+3=6$ is $\{6\}$. _____
- (xi) In triangle ABC $m\angle A + m\angle B + m\angle C = 180^0$ _____
- (xii) Factors of $3x^2 + 9x$ are $3x$ and $x+3$. _____
- (xiii) $\frac{a+b}{a^2+b^2} = a+b$ _____
- (xiv) $\frac{2y}{4} \div 5xy = \frac{5x}{2}$ _____
- (xv) Mean = Sum of data \div Number of data _____

Q.No.2 Fill in the blanks . Each part carries 02 marks.

(40)

- (i) If two triangles have equal corresponding angles or equal ratios of corresponding sides, they are _____ triangles.
- (ii) In a right angled triangle, the sum of two acute angles will be _____.
- (iii) $5(xy)^2 \div 15xy^3 =$ _____
- (iv) Information handling is a part of _____.
- (v) Athar read 25% of the book containing 100 pages, the number of pages left are _____
- (vi) The distance between parallel sides of a trapezium is called _____
- (vii) The equality of two _____ is called proportion.
- (viii) $A : B = \frac{2}{3} : \frac{5}{6}$ and $B : C = \frac{1}{2} : 2$, then $A : C =$ _____
- (ix) $P =$ Set of first 3 prime numbers and $Q =$ Set of first 2 composite numbers then $P \cup Q =$ _____
- (x) $x + y = 16$, $x - y = 0$, then $(x,y) =$ _____
- (xi) The subset of every set is _____
- (xii) $A \cap B = B \cap A$, this property is called _____
- (xiii) 6 _____ $\{-6,4,0\}$

