

MATHEMATICS New (10<sup>th</sup>)

Time: 20 Minutes

Marks: 15

Multiple Choice Questions  
01 Mark for each

Paper Code

Roll No. of the  
Student

Serial No. Of the Answer Book

SECTION-A

Note:

- 1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.  
 2) Fill the circle (A) (B) (C) (D), which one is correct with blue or black ball point in separate OMR Sheet like ●  
 3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

I.i. In the given set of data 5,7,7,5,3,7,2,8,2 mode is.

- (A) 9 (B) 5 (C) 2 (D) 7

ii. The formula  $\frac{\sum x}{n}$  determines.

- Arithmetic Mean (B) Median (C) Mode (D) G.M

iii. If  $\sin \theta > 0$ ,  $\tan \theta > 0$ , then  $\theta$  lies in \_\_\_\_\_ quadrant.

- (A) IV (B) III (C) II (D) I

iv. If an object is above the level of observer then the angle formed between the horizontal line and observer's line of sight is called \_\_\_\_\_.

- (A) Angle of depression ● Angle of elevation (C) Obtuse angle (D) None of these

v. Apollonius was born in \_\_\_\_\_.

- Perga (B) Istanbul (C) Islamabad (D) Kabul

vi. If the distance between the centres of two circles is equal to the sum of their radii, then circles will.

- (A) Intersect (B) Do not intersect ● Touch each other externally (D) Touch each other internally

vii. The measure of the external angle of a regular hexagon is.

- $\frac{\pi}{3}$  (B)  $\frac{\pi}{4}$  (C)  $\frac{\pi}{6}$  (D) None of these

viii. If two chords of a circle are equal, then their corresponding arcs are \_\_\_\_\_.

- Congruent (B) Not congruent (C) Concurrent (D) None of these

ix. If  $(x+1)(x-5) = 0$ , then the solutions are.

- (A)  $x=1, -5$  (B)  $x=1, 5$  (C)  $x=-1, -5$  ●  $x=-1, 5$

x. For the quadratic equation  $ax^2+bx+c=0$  if  $b^2-4ac=0$ , then roots are \_\_\_\_\_.

- (A) Unequal (B) Imaginary ● Equal (D) None of these

xi. If  $\alpha, \beta$  are the roots of  $9x^2-27x+k=0$  then  $\alpha\beta =$  \_\_\_\_\_.

- (A)  $\frac{27}{9}$  ●  $\frac{K}{9}$  (C)  $\frac{-K}{9}$  (D)  $\frac{-27}{9}$

xii. The third proportional of  $x$  and  $y$  is.

- (A)  $xy$  (B)  $\frac{x}{y}$  ●  $\frac{y}{x}$  (D) None of these

xiii. If  $a : b = c : d$  then  $(a+b) : b :: (c+d) : d$  it is \_\_\_\_\_ property.

- Componendo (B) Dividendo (C) Invertendo (D) Alternendo

xiv.  $\frac{x^2+2}{x^2+2x+2}$  is.

- (A) Proper fraction ● Improper fraction (C) Irrational fraction (D) None of these

xv. If  $A = \{3, 4, 5\}$ ,  $B = \{5, 6, 7\}$  then  $A \cap B =$  \_\_\_\_\_.

- (A)  $\{7\}$  (B)  $\{4, 6\}$  ●  $\{5\}$  (D)  $\{3, 7\}$