Time : 3 Hrs] **STD. 10 Maths (Basic)** [Total Marks : 80

PAPER-1

SECTION - A

Do as Directed (Q. 1 to 24) [1 Marks Each] **[24]**

Choose the correct option: (Q -1 to 6)

(1) The ones of two digit is x and tens is y, them the double of that digit is ..... .

(A) $10x+2y$ (B) $2y+20x$

(C) $20y+2x$ (D) $2x+10y$

(2) which of the following method is used for the Solution of pair of linear equations in two variables?

(A) Graphic Method (B) Substitution Method

(C) Elimination (D) All of them

(3) If $S_1 = 2+4+....+2n$ and $S_2 = 1+3+5+....+(2n-1)$ then $S_1 : S_2 =$ .....

(A) $\frac{n+1}{n}$ (B) $\frac{n}{n+1}$

(C) n^2 (D) $n+1$

(4) Distance between point (3,4) and origin is .....

(A) 25 (B) 5

(C) 16 (D) 9

(5) $(\sec A+\tan A)(1-\sin A) =$ .....

(A) Sec A (B) Sin A

(C) cosec A (D) cos A

(6) For any data $z+\bar{x}=71$ and $z-\bar{x}=3$ then Using inter-relation between mean, mode and median Value of M =.....

(A) 31 (B) 38

(C) 35 (D) 34

Fill in the blanks (Q -7 to 12) **[05]**

(7) The difference of HCF and LCM of prime numbers 5 and 7 is ..... . (35,34,36)

(8) The graph of $P(x)=x^2+4x+3$ is ..... .
(line, open upwards parabolas, open downwards parabolas)

(9) ..... is the short form of secant A.
(cos A, cosec A, sec A)

(10) The tangent of circle intersects a circle in ..... points (2,0,1)

(11) Modal class is ..... of the following frequency distribution table.

Class	0 - 5	5 - 10	10 - 15	15 - 20	20 - 25
Frequency	3	5	8	7	6

(15 - 20, 10 - 15, 20 - 25)

(12) If $P(A)=0.62$ then $P(\bar{A})=$ ..... .(0.62, 1, 0.38)

State the following statements are true or false (Q. 13 to 16)

(13) $4+\sqrt{2}$ is an irrational number.

(14) Number of zeroes of polynomial $P(x)=x^2-10x+6$ are three zeroes.

(15) If $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ then in Pair of linear equations in two variables have infinite many solutions.

(16) The probability is $\frac{1}{81}$ to get 81 marks in 80 marks question paper.

Match the following (Q: 17 to 20) **[05]**

	A	B
(17)	Area of minor sector	(a) $2\pi r$
(18)	Area of sector	(b) $\frac{\pi r^2\theta}{360^\circ}$
		(c) πr^2

	A	B
(19)	volume of sphere	(a) $2\pi r(h+r)$
(20)	Total surferce area of 5 rupees Coin	(b) $2\pi rh$
		(c) $\frac{4}{3}\pi r^3$

- **Solve the following. (Q. 21 to 24)**

(21) In the AP 2, ?, 26 find the missing terms?

(22) How many tangents are got on a one point of circle ?

(23) write class length of class 17.5 - 27.5

(24) Two coins are lossed at a time then what is the probability of getting two heads ?