PAPER-3

SECTION - A

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	Do	is directed. (Q. 1 to 24)	[1 Marks Each] (24)		
	Choose the correct option. (Q. 1 to 6) (1) $1 \text{ cm}(a, 18) = 36 \text{ and HCF}(9, 18) = 2 \text{ then a} = $				
•					
	(-)	(A) 2	(B) 3		
		(C) 4	(D) 1		
	(2)	If the graph of the quad	Iratic polynomial $y = ax^2 +$		
	bx + c is a parabola opening upwards, then				
		holds good.			
		(A) $a < 0$	(B) $a = 0$		
		(C) $a > 0$	(D) $a \neq 0$		
	(3)	The line representing	4x + 3y = 24 intersects the		
	x-axis at point				
		(A) (3,0)	(B) $(0,4)$		
		(C) (6,0)	(D) (0,8)		
	(4)	(2x+1)(3x+2) = 60	(x+1)(x-2) is a		
		equation.			
		(A) Linear	(B) Quadratic		
		(C) Cubic	(D) Fourth degree		
	(5)	If $a=2$ and $d=4$ then	find $S_{20} = _{_{_{_{_{_{_{1}}}}}}}$.		
	•	(A) 600	(B) 800		
		(C) 78	(D) 80		
	(6)	which measure of sic	de given below determine		
		right angled triangle.			
		(A) 6, 8, 12	(B) $3,7,9$		
		(C) 7,15,17	(D) 7,24,25		
•	Fill	in the blanks. (Q. 7 to	12)		
	(7)	The perpendicular di	stance of the point (-4,9)		
		from y-axis is	(9,4,13)		
	(8)	tan 45° + sin 90° - sec6	0° is		
	(9)	In $\triangle ABC \angle B = 90^{\circ}$,	$\angle C = 60^{\circ}$ and BC = 6 cm		
		then AB = cn	$n.(12, 6\sqrt{3}, 2\sqrt{3})$		
	(10)	The centre of the circl	e is of the diameter		
	of the circle. (midpoint, endpoint, centroi				
	(11)	is the area o	of a sector by radius 5 cm, If		
		radius makes a right ar	ngle. $(\frac{25\pi}{2}, \frac{25\pi}{3}, \frac{25\pi}{4})$		
	(12) The perimeter of the base of the hemisphere is				
		then its volume is	cm ² .		
		$(\frac{\pi}{3},\frac{3\pi}{2},\frac{2\pi}{3})$			

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• Write the statements true or false. (Q. 13 to 16)

- (13) sum and product at zero at polynomial is -14 and 3 respectively then quadratic polynomial $x^2 + 14x + 3$.
- (14) In standard form the equation $\frac{x}{2} \frac{y}{3} = 1$ can be written as 2x 3y = 6.
- (15) A=B if and only if d(A,B)=0.
- (16) Probability of any event can't be zero.

• Match the following. (Q. 17 to 20)

A	В
(17) Linear Polynomial	(a) Three Zeroes
(18) Cubic Polynomial	(b) One Zeroe
	(c) Two Zeroes

A	В
$(19) \sec^2\theta - \tan^2\theta$ $(20) \frac{1}{\sin\theta}$	(a) $\csc\theta$ (b) $\cos^2\theta$ (c) 1

• Solve the following. (Q. 21 to 24)

- (21) What is the LCM of 120 and 216?
- (22) Find the discriminant of the equation $5\sqrt{5} x^2 10x 2\sqrt{5} = 0$.
- (23) Fnd the curved surface area of a cylinder with diameter 60 cm and height 35 cm.
- (24) Mean of the observations 6, 7, x, 8, y and 14 is 9 then find x + y.