Analytical Geometry-2 Model Exam Question paper - 2

11th Standard

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	Business Maths	Reg.No.:					1
	I.Answer all the questions						_
Tir	ne : 00:45:00 Hrs			Tota	l Mar	ks : 3!	5
Pa	rt-A				7 :	x 1 = 7	7
1)	Slope of the line $\perp r$ to ax+by+c=0 is						
	(a) -a/b (b) -b/a (c) b/a (d) a/b						
2)	When ax+3y+5=0 and 2x+6y+7=0 are parallel then the value of 'a' is						
	(a) 2 (b) -2 (c) 1 (d) 6						
3)	The value of 'a' for which 2x+3y-7=0 and 3x+ay+5=0 are $\pm r$ is						
	(a) 2 (b) -2 (c) 3 (d) -3						
4)	The centre of the circle $x^2+y^2+6y-9=0$ is						
	(a) (0,3) (b) (0,-3) (c) (3,0) (d) (-3,0)						
5)	The equation of the circle with centre at (0,0) and radius 3 units is						
	(a) $x^2 + y^2 = 3$ (b) $x^2 + y^2 = 9$ (c) $x^2 + y^2 = \sqrt{3}$ (d) $x^2 + y^2 = \sqrt[3]{3}$						
6)	The length of the diameter of a circle with centre (1,2) and passing through the point						
	(a) 5 (b) $\sqrt{45}$ (c) 10 (d) $\sqrt{50}$						
7)	If (1,-3) is the centre of the circle x ² +y ² +ax+by+9=0, its radius is						
	(a) $\sqrt{10}$ (b) 1 (c) 5 (d) $\sqrt{19}$						
Pa	nrt-B				6 x	2 = 12	2
8)	Find the equation of a line which passes through the point (-2,3) and makes an angles of 30° with the positive direction of x-axis.						
9)	Find the equation of the circle with centre at (-4,-2) and radius 6 units.						
10	Find the equation of the circle passing through (-2,0) and having its centre at(2,3)						
11	Find the equation of tangent to the circle x ² +y ² =10 at (1,3)						
12	Find the length of the tangent from (2,-3) to the circle x²+y²-8x-9y+12=0						
13	Find the length of the tangent from the p <mark>oint (-2,</mark> 3) to the circle 2x ² +2y ² =3						
Pa	nrt-C				2 :	x 3 = 6	õ
14	Find the equation of the line which has perpendicular distance 4 units from the origin and the inclination of perpendicular with +ve direct	tion of x-axis	is 135 ⁰				
15	Show that the straight line 4x+3y=10, 3x-4y=5 and 5x+y=7 are consurrent						

15) Show that the straight line 4x+3y=10, 3x-4y=-5 and 5x+y=7 are concurrent.

Part-D 2 x 5 = 10

16) Find the equation of the bisectors of the angle between 3x+4y+3=0 and 4x+3y+1=0.

17) Find the equation of the straight line which passes through (2,2) and have intercepts whose sum is 9.
