Analytical Geometry-1 Model Exam Question paper - 1

11th Standard								
	Business Maths	Reg.No.:						
	I.Answer all the questions							
Time: 00:35:00 Hrs					Tot	al Ma	rks	: 25
Part-A						į	5 x 1	= 5
1)	If P, Q , R are points on the same line with slope PQ= $2/3$, then the slope of QR is							
	(a) 2/3 (b) -2/3 (c) 3/2 (d) -3/2							
2)	The angle made by the x+y+7=0 with the positive direction of x axis is							
	(a) 45° (b) 135° (c) 210° (d) 60°							
3)	The slope of the line 3x-5y+8=0 is							
	(a) 3/5 (b) -3/5 (c) 5/3 (d) -5/3							
4)	If the slope of a line is negative then the angle made by the line is							
	(a) acute (b) obtuse (c) 90° (d) 0°							
5)	The slope of a linear demand curve is							
	(a) postive (b) negative (c) 0 (d) ∞							
Part-B						4	4 x 2	= 8
6)	Find the locus of a point which moves so that it is always equidistant from the two points (2,3) and (-2,0).							
7)	Find the locus of a point P which moves so that PA = PB where A is (2,3) and B is (4,-5)							
8)	A point moves so that its distance from the point (-1,0) is always three times its distance from the point (0,2). Find its locus.							
9)	Find the locus of a point which moves so that its distance from the point (3,7) is alwa <mark>ys 2 uni</mark> ts.							
Part-C						4	x 3 =	= 12
10	A and B are two points (-2,3), (4,-5) Find the equation to the locus po <mark>int P such that PA²-PB²=20</mark>							
11	Find the equation to the locus of a point which moves so that its distance from the point (0,1) is twice its distance from the x axis.							
12	Find the perpendicular bisector of the straight line joining the point (2,-3) and (3,-4)							
13) The distance of a point from the origin is five tomes its distance from the y-axis. Find the equation of the locus.								

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