Student Name;		Roll No	••••••	Date//		
Class 声 2 <sup>nd</sup> year		Subject : > Mathematics		≫ Chapter # 6		
T- Marks : 30 Tim		ne:40 mints	Obtain Marks			

Q#	1 Circle the correct option		1x7=	=7								
1	1 The center of $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ is;											
a	(0,0)	<b>b</b> ( <i>a</i> , 0)	с		( <i>-a</i> ,0)	d	(a , a)					
2	The focus of $y^2 = -4ax$ is;											
a	(0,0) b	(a ,0)	c		( <i>-a</i> ,0)	d	( <i>a</i> , <i>a</i> )					
3	The eccentricity of parabola is ;											
a	0	<b>b</b> 1	c	Les	ss then one	d	Not define					
4	The parametric equations $x = aCos\theta$ , $y = aSin\theta$ represent equation of ;											
a	Circle b	Ellipse	c	H	Iyperbola	d	Parabola					
5	Axis of parabola $x^2 = 4ay$ is ;											
a	x = 0	<b>b</b> y = 0	c		y = x	d	x = -y					
6	The center of the circle $x^2 + y^2 - 6x + 4y + 13 = 0$											
a	(3,2)	<b>b</b> (3, -2)	c		(2,3)	d	(-2, -3)					
7	The radius of the circle $x^2 + y^2 = 5$ is;											
a	25	<b>b</b> √5		c	5	d	(0,0)					
Q#2	# 2 Write short answer of following question. 2x7=14											
i	Find the equation of circle with center at $(\sqrt{2}, -3\sqrt{2})$ and radius $2\sqrt{2}$											
ii	Find the vertex and directrix of parabola $x^2 = -16y$ ;											
iii	Find the center and foci of $\frac{x^2}{4} - \frac{y^2}{9} = 1$											
iv	Define circle and just write its standard equation;											
v	Find the length of tangent drawn from point $P(-5, 4)$ to the circle $5x^2 + 5y^2 - 10x + 15y - 131 = 0$ ;											
vi	vi Define Parabola ;											
vii	vii Find the radius of circle with center at $(5, -2)$ and radius 4;											
	Q#3 Write detail answer of these	+5=9										
	a. Write an equation of a circle passing through the points A $(-7, 7)$ , $B(5, -1)$ , $C(10, 0)$											

b. Show that the line 2x + 3y - 13 = 0 is tangent to the circle  $x^2 + y^2 + 6x - 4y = 0$ ;