FSC Part 2 Mathematics Chapter 6 Online Test

Sr	Questions	Answers Choice
1	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
2	If the equation of the parabola $x^2 = 4ay$, then opening of the parabola is upward of the:	A. x-axis B. y-axis C. Major axis D. Minor axis
3	$y^2 = 4ax$, is the standard equation of the:	A. Ellipse B. Parabola C. Hyperbola D. None of these
4	In the case of rotation of axes which formula is true:	
5	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
6	The point of a parabola which is closest to the focus in the:	A. Directrix B. Vertex C. Focus D. Chord
7	Two real and distinct tangents can be drawn to a circle from any point $P(x_1, y_1)$ _____ the circle:	A. Inside B. On C. Outside D. None of these
8	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
9	A line segment having both the end-points on a circle and not passing through the center is called a:	A. A chord B. A secant C. A diameter D. None of these
10	A line perpendicular to a radial chord of a circle at the end-point (which lies on the circle) is a:	A. Secant B. Diameter C. Chord D. Tangent
11	The focus of the parabola x2=-4ay is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
12	The vertex of the parabola $y^2 = -4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
13	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
14	Question Image	A. Ellipse B. Parabola C. Hyperbola D. Circle
15	The two parts of a right circular cones are called:	A. Nappes B. Apex of the cone C. Generator D. Vertex
16	Equation of axis of the parabola $x^2 = 4ay$ is:	A. x = 0 B. x = a C. y = 0

		D. y = a
17	The conic is an ellipse, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0
18	Question Image	A. a B. 2b C. b D. 2a
19	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
20	Length of tangent from (a, 0) to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ is:	B. c C. 2g + 2f -c D. None