FA Part 2 Mathematics Chapter 6 Test Online

Sr	Questions	Answers Choice
1	The focus of the parabola x2=-4ay is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
2	If r is the radius of the circle and its center is at origin, then equation of circle is:	A. x² + y² = a² B. x² + y² = r² C. x² - y² = a² D. x² - y² = r²
3	The graph of the parabola y^2= -4ax is symmetric about:	A. x-axis B. y = x C. y-axis D. None of these
4	If the equation of the parabola is y^2 = - 4ax, then opening of the parabola is to the _____ of the y-axis:	A. Left B. Upward C. Right D. Downward
5	The focus of the parabola y^2=4ax is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
6	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
7	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
8	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
9	If the equation of the parabola is x^2 = 4ay, then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
10	Two arcs of two different circles are congruent if:	A. The circles are congruent B. The corresponding central angles are congruent C. Both a and b D. None of the above
11	The vertex of the parabola y^2 = 4ax is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
12	A line through a point say P perpendicular to the tangent to the curve at P is called:	A. Straight line B. Tangent line C. Normal line D. None of these
13	Question Image	B. 0 C. 4 D. 7
14	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

15	The opening of the parabola $y^2 = 4ax$ is to the _____ of the:	A. Left B. Upward C. Right D. Downward
16	The graph of the the parabola $x^2 = 4ay$ lies in quadrant:	A. I and II B. III and IV C. II and III D. I and III
17	If equation of circle is $(x - h)^2 + (y - k)^2 = r^2$, then center of a circle:	A. (-h, -k) B. (h, k) C. (-h, k) D. (h, -k)
18	Point (5, 6) lies ..... the circle $x^2 + y^2 = 81$:	A. Outside B. Inside C. On D. None of these
19	Question Image	
20	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