FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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
2	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)
3	The vertex of the parabola $y^2 = 4ax$ is:	A. (-a, 0) B. (a, 0) C. (0, -a) D. (0, 0)
4	Question Image	A. Above B. Left C. Below D. Right
5	If the line segment obtained by joining any two points of a region lies entirely within the region, then the region is called _____:	A. Maximum B. Vertex C. Minimum D. Convex
6	A chord containing the center of the circle is called _____ of the circle:	A. Diameter B. Chord C. Radius D. None of these
7	Question Image	A. Left or right B. Upper or lower C. Open D. None of these
8	Question Image	A. 0 B. 1 C. -1 D. 2
9	Question Image	A. f(x² + 1) B. f(x) D. f(x²)
10	Question Image	A. cot x B. - cot x C. cosec x cot x D. -cosec x cot x
11	Question Image	B. 0 C. 4 D. 7
12	If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies outside the circle only if:	A. |CP| < r B. |CP| = r C. |CP| > r D. None of these
13	A function $P(x) = 6x^4 + 7x^3 + 5x + 1$ is called a polynomial function of degree -------- with leading coefficient -------.	A. 4, 6 B. 2, 7 C. 2, 3 D. 2, 5
14	The horizontal line x' ox is called:	A. x-axis B. y-axis C. abscissa D. ordinate
15	Equation of a line parallel to x-axis:	A. x = 0 B. x = y C. y = a D. x = a

16	x = c is a vertical line parallel to _____.	A. x-axis B. y-axis may be C. y-axis D. None of these
17	The feasible solution, which maximizes or minimizes the objective function, is called the _____:	A. Maximum solution B. Optimal solution C. Minimum solutions D. None of these
18	The line y = c is above the x - axis, if:	A. c > 0 B. c < 0 C. c = 0
19	The function $f(x) = 3x^2$ has minimum value at :	A. x = 3 B. x = 2 C. x = 1 D. x = 0
20	ax + by + c = 0, will represent equation of straight line parallel y-axis if:	A. a = 0 B. b = 0 C. c = 0 D. a = 0, c = 0