FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
2	tanh x =	
3	For any point (x, y) on x-axis:	A. y = 1 B. y = 0 C. y = -1 D. y = 2
4	Infinite number of lines can pass through:	A. One point B. Two points C. Three points D. Four points
5	A linear equation in two variables represents:	A. Circle B. Ellipse C. Hyberbola D. Straight line
6	Let $f(x) = x^2$, then range of f is the set of all:	A. Real numbers B. Non-negative real numbers C. Non-negative integers D. Complex numbers
7	Distance of the point (-2, 3) from y-axis is:	A. -2 B. 2 C. 3 D. 1
8	y = mx + c is the equation of straight line in:	A. Slope-intercept form B. Two points from C. Point slope form D. Intercepts form
9	Question Image	A. Continuous at x = 1 B. Not continuous at x = 1 C. Both a and b D. none
10	If a circle and a line intersect in two points, then the line is called:	A. A chord B. A secant C. A diameter D. None of these
11	For a square of side x units, the rate of change of area with respect to the side is given by:	A. x B. x² C. 2x D. 2
12	Question Image	A. 0 B. 2 C. 1 D. 3
13	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
14	Question Image	A. ln |sin x| B. - ln |sin x| C. ln |cos x| D. -ln |cos x|
15	Two vectors are equal if they:	A. Pass through the same point B. Are parallel to each other C. Are parallel to each other and have same direction D. Have equal magnitude and have same direction
		A. The circles are congruent

16	Two arcs of two different circles are congruent if:	B. The corresponding central angles are congruent C. Both a and b D. None of the above
17	(1, 0) is the solution of inequality :	A. 7x + 2y < 8 B. x - 3y < 0 C. 3x + 5y > 6 D. -3x + 5y > 2
18	Question Image	A. e^{2x} sin x + c B. e^{2x}cosx + c C. -e^{2x}sin x + c D. -e^{2x}cosx + c
19	If the graph of f is entirely below the x-axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative
20	Question Image	A. 0 B. 1 C. -1 D. 2