FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. 1 (1 - 4) B. 2x - 3 C. x - 3 D. x³ - 3x
2	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
3	x = 2 is a vertical line perpendicular to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
4	An integral of $3x^2$ is:	A. x³+c B. 3 C. 6x D. x^{2+c}
5	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
6	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
7	Question Image	
8	If any two vectors of scalar triple product are equal, then its value is equal to:	A. 0 B. 1 C. -1 D. 2
9	x = a is a vertical line perpendicular to _____.	A. x - axis B. x - axis may be C. y - axis D. None of these
10	tanh x =	
11	Question Image	A. sinh x B. cosh x C. -sinh x D. -cosh x
12	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined
13	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
14	The graph of 2x + y < 2 is the open half plane which is _____ the origin side of 2x + y = 2:	A. At B. Not an C. On D. None of these
15	Question Image	A. c B. 0 C. 1 D. -c
16	If in the case of translation of axes, O (-3, 2), (x, y) = (-6, 9) then (X, Y) =	A. (-3, 9) B. (-3, 7) C. (-9, 11) D. (3, 7)
17	An angle in a semi-circle is:	A. 0° B. 90° C. 180°

		D. 60°
18	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
19	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	A. Rectangle B. Rhombus C. Parallelogram D. None of these
20	In the case of rotation of axes which formula is true:	