

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. $\operatorname{sech} x \tanh x$ B. $-\operatorname{sech} x \tanh x$ C. $\operatorname{sech}^2 x$ D. $-\operatorname{sech}^2 x$
2	A function, in which the variable appears as exponent (power), is called a / an ----- function.	A. Constant B. Explicit C. Exponential D. Inverse
3	Question Image	A. Derivative B. Differential C. Integral D. None of these
4	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
5	The centroid of the triangle whose vertices are (3, -5), (-7, 4) and (10, -2) is:	A. (-2, -2) B. (-2, 2) C. (2, -1) D. (0, 0)
6	Point of intersection of $x + y = 5$ & $x - y = 3$ is:	A. (5, 5) B. (4, 2) C. (4, 1) D. (1, 4)
7	Question Image	A. Above B. Left C. Below D. Right
8	$\operatorname{Cosh}^2 x - \operatorname{Sinh}^2 x =$	A. 1 B. -1 C. 2 D. -2
9	In the translation of axes which formula is true:	A. $x = X + h$ B. $X = x + h$ C. $x + X = h$ D. None
10	Angle between the lines $x + y + 1 = 0$ & $x - y + 4 = 0$ is:	A. 30° B. 45° C. 60° D. 90°
11	The point (2, 5) lies the lie $3x - y + 1 = 0$	A. Above B. Below C. On D. None
12	The point of a parabola which is closest to the focus in the:	A. Directrix B. Vertex C. Focus D. Chord
13	The cross product or vector product of two vectors is defined:	A. Only in plane B. Only in space C. Both a and b D. None of these
14	$i \cdot (j \cdot k) =$	A. Meaningless B. -1 C. 1 D. 2
15	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing

16	Which are the following triples can be direction angles of a single vector:	A. $45^\circ, 45^\circ, 60^\circ$ B. $30^\circ, 45^\circ, 60^\circ$ C. $45^\circ, 60^\circ, 60^\circ$ D. $30^\circ, 30^\circ, 30^\circ$
17	Question Image <input type="text"/>	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
18	y - ordinate of the centroid of triangle with vertices A(-2, 3) B(-4, 1), C(3, 2) is:	A. 3 B. 1 C. 2 D. 0
19	The term dy (or df) = $f'(x) dx$ is called the _____ of the dependent variable y.	A. Differentiation B. Integration C. Differential D. None of these
20	Equation of axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$