

FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	If the focus lies on the x-axis with coordinates $F(a, 0)$ and directrix of the parabola is = - a then the equation of parabola is:	A. x ² = 4ay B. y ² = 4ax Cx ² = 4ay Dy ² = 4ay
2	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
3	If the lower limit is a constant and the upper limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
4	Question Image	
5	Question Image	A. Volume of the tetrahedron B. Volume of the parallelepiped C. Volume of the triangle D. None of these
6	Question Image	A. Free vector B. Unit vector C. Null vector D. None of these
7	If $f(x) = \cos x$ then $f'(0)$ is equal to:	A. 0 B1 C. 1
8	The point of intersection of the perpendicular bisectors of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
9	Which of the following is a vector quantity?	A. Work B. Temperature C. Distance D. Displacement
10	If y = sin x then dy =	A. cosy dx B. cos x C. cosx dx D. cos xdy
11	Question Image	A. R B. R - {2} C. R - {2, -2} D. R - {-2}
12	Question Image	Acosec x cotx B. cosec ² x Ccosec ² x D. cosec x cotx
13	If a variable y depends on a variable x in such a way that each value of x determines exactly one value of y, then y is a of x.	A. Independent variable B. Not function C. Function D. None of these
14	Which are the following triples can be direction angles of a single vector:	A. 45°,45°,60° B. 30°,45°,60° C. 45°,60°,60° D. 30°,30°,30°
15	Point of intersection of lines $x - 2y + 1 = 0$ and $2x - y + 2 = 0$ equals:	A. (1, 0) B. (0, 1) C. (-1, 0) D. (0, -1)
16	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
7	X-coordinate of any point on Y-axis:	A. 0 B. x C. y D. 1
8	Question Image	
9	The point of intersection of the altitudes of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
:0	Question Image	A. x - axis B. z - axis C. y - axis D. None of these