FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Zero vector is perpendicular to:	A. Every vector B. Unit vector only C. Position vector only D. Not any vector
2	The feasible region is _____ if it can easily by enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
3	The two parts of a right circular cones are called:	A. Nappes B. Apex of the cone C. Generator D. Vertex
4	For different values of k, the equation 4x + 5y = k represents lines _____ to the line 4x + 5y = 0.	A. Perpendicular B. Parallel C. Equal D. None of these
5	The curves obtained by cutting a _____ double right circular cone by a _____ are called conics:	A. Straight line B. Plane C. Curve D. None of these
6	If a = 0, then the line ax + by + c = 0 is parallel to:	A. y - axis B. x - axis C. along y - axis D. None of these
7	A line segment joining two distinct points on a parabola is called a _____ of the parabola:	A. Chord B. Vertex C. Focus D. Directrix
8	If r is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies on the circle only if:	A. |CP| < r B. |CP| > r C. |CP| = r D. None of these
9	Let $f(x) = x^3 + \sin x$, then f(x) is:	A. Even function B. Odd function C. Power function D. None of these
10	The condition for the line y = mx + c to be a tangent to the circle $x^2 + y^2 = a^2$ is c = _____:	
11	Question Image	
12	The horizontal line x' ox is called:	A. x-axis B. y-axis C. abscissa D. ordinate
13	Question Image	A. ln |sin x| B. - ln |sin x| C. ln |cos x| D. -ln |cos x|
14	If a straight line is perpendicular to x-axis, then its slope is:	A. 0 B. 1 C. 2 D. Undefined
15	Question Image	A. x - axis B. z - axis C. y - axis D. None of these
16	y - y1 = m (x - x1) is the equation of straight line in:	A. Slope-intercept from B. Point-slope from C. Normal form D. Intercepts form

17	The number e denotes the _____ of the conic:	A. Directrix B. Vertex C. Focus D. Eccentricity
18	The equation of a straight line which parallel to the line 3x - 2y + 5 = 0 and passes through (2, -1) is:	A. 3x + 2y - 8 = 0 B. 3x - 2y + 8 = 0 C. 3x - 2y - 8 = 0 D. 3x + 2y + 8 = 0
19	Question Image	A. tan x B. cot x C. - tan x D. - cot x
20	Question Image	A. Constant B. Implicit C. Explicit D. Inverse