FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The function $f(x) = 3x^2$ has minimum value at :	A. x = 3 B. x = 2 C. x = 1 D. x = 0
2	A point of a solution region where two of its boundary lines intersects is called a _____ point of the solution region:	A. Maximum B. Corner C. Minimum D. None of these
3	Distance of the point (-3, 7) from x-axis is:	A. 3 B. -3 C. 7 D. 10
4	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective funciton C. Minimum function D. None of these
5	In the case of rotation of axes which formula is true:	
6	The line y = a is below the x-axis, if:	A. a > 0 B. a < 0 C. a = 0
7	The point of intersection of internal bisectors of the angles of a triangle is called:	A. Centroid B. Ortho-centers C. Circums-center D. In-center
8	Question Image	A. 0 B. 1 C. -1 D. 2
9	The opening of the parabola $x^2 = 4ay$ is upward of the:	A. x -axis B. y = c C. y - axis D. x = y
10	If a point lies inside a circle, then its distance from the center is:	A. Equal to the radius B. Less then the radius C. Greater then the radius D. Equal to or greater than the
11	The inequality x < a is the open half plane to the _____ of the boundary line x = a:	A. Above B. Left C. Below D. Right
12	Question Image	A. tan x + c B. - tan x + c C. sec x tan x + c D. - sec x tan x + c
13	Question Image	A. x with respect to y B. y with respect to y C. y with respect to x D. x with respect to x
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	Which of the following is not a vector quantity ?	A. Weight B. Mass C. Force D. Velocity
16	Question Image	
		A. 30°

17	Angle between the lines x + y + 1 = 0 & x - y + 4 = 0 is:	B. 45° C. 60° D. 90°
18	Question Image	A. Unit vector B. Null vector C. Free vector D. None of these
19	Parametric equations x = a cos t, y = a sin t represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
20	i.(j.k) =	A. Meaningless B. -1 C. 1 D. 2