FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The line y = a is below the x-axis, if:	A. a > 0 B. a < 0 C. a = 0
2	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
3	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
4	Question Image	A. Undefined B. 3a² C. a² D. 0
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	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
7	A line which divides a plane into two parts is called:	A. Boundary point B. Boundary line C. Feasible line D. None
8	Measure of the central angle of a minor arc is ____ the measure of the angle subtended in the corresponding major arc.	A. Equal B. Double C. Not equal to D. Triple
9	Question Image	A. Constant B. Implicit C. Explicit D. Inverse
10	If the inclination of a line lies between]90°, 180°[, then the slope of line is :	A. Positive B. Negative C. Zero D. undefined
11	Question Image	
12	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
13	Let $f(x) = x^2$, then range of f is the set of all:	A. Real numbers B. Non-negative real numbers C. Non-negative integers D. Complex numbers
14	Question Image	A. Scalar B. Free vector C. Unit vector D. Null vector
15	In equation of circle, coefficient of each of x^2 and y^2 are:	A. Not equal B. Opposite in signs C. Equal D. None of these
16	Question Image	
		A. x = a

17	The directrix of the parabola $y^2 = 4ax$ is:	B. x = -a C. y = a D. y = - a
18	There are _____ feasible solutions in the feasible region:	A. Finitely B. Two C. Infinitely many D. Three
19	Question Image	A. c B. 0 C. 1 D. -c
20	Question Image	A. tan x + c B. -tan x + c C. sec x + c D. -sec x + c