FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. e D. Does not exist
2	f (x) = x secx, then f(0)=	A. -1 B. 0 C. 1
3	Question Image	A. tan x + c B. - tan x + c C. sec x tan x + c D. - sec x tan x + c
4	If the inclination of a line lies between]90°, 180°[, then the slope of line is :	A. Positive B. Negative C. Zero D. undefined
5	Two circles of radius 3 cm and 4 cm touch each other externally. The distance between their centers is:	A. 1 cm B. 7cm C. 4cm D. 5cm
6	Question Image	A. cot x B. - cot x C. cosec x cot x D. -cosec x cot x
7	Question Image	A. sin x B. cos x C. -sin x D. -cos x
8	If the line segment obtained by joining any two points of a region lies entirely within the region, then the region is called _____:	A. Maximum B. Vertex C. Minimum D. Convex
9	The equation to the straight line which passes through the point (2, 9) and makes an angle of 45° with x-axis is:	A. x + y + 7 = 0 B. x - y + 7 = 0 C. y - x + 7 = 0 D. None of these
10	A function, in which the variables are _____ numbers, then function is called a real valued function of real numbers.	A. Complex B. Rational C. Real D. None of these
11	If the equation of the parabola $x^2 = 4ay$, then opening of the parabola is upward of the:	A. x-axis B. y-axis C. Major axis D. Minor axis
12	Question Image	
13	If the equation of the parabola is y2 = 4ax, then opening of the parabola is to the right of the:	A. x-axis B. y = x C. y-axis D. x + y =0
14	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
15	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
16	The pair of lines of homogeneous second-degree equation $ax^2 + 2hxy + by^2 = 0$ are real and coincident, if:	A. h² < ab B. h²> ab C. h²= ab

		D. None of these
17	Question Image	A. R B. R - {2} C. R - {2, -2} D. R - {-2}
18	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
19	The focus of the parabola y^2=4ax is:	A. (-a , 0) B. (0, a) C. (0, -a) D. (a, 0)
20	Question Image	A. Scalar quantity D. Reciprocal vector