FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. Continuous at $x = 1$ B. Not continuous at $x = 1$ C. Both a and b D. none
2	If the equation of the parabola is $x^2 = 4ay$, then opening of the parabola is to _____ of the x-axis:	A. Left B. Upward C. Right D. Downward
3	The two parts of a right circular cones are called:	A. Nappes B. Apex of the cone C. Generator D. Vertex
4	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is c = _____ :	
5	Question Image	A. One variable B. Three variable C. Two variable D. Four variable
6	The small change in the value ofx, positive or negative is called the -------- of x.	A. Increment B. Differential C. Derivative D. none of these
7	For any point (x, y) on x-axis:	A. $y = 1$ B. $y = 0$ C. $y = -1$ D. $y = 2$
8	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
9	Question Image	A. 0 B. 1 C. 2 D. 4
10	Question Image	A. c B. 0 C. 1 D. -c
11	Question Image	C. 28 D. 29
12	Question Image	A. 2cosh x B. 2sinh x C. 2sinh (2x) D. -2sinh (2x)
13	A circle is of radius 5 cm, the distance of a chord 8 cm long from its center is:	A. 4 cm B. 3cm C. 2.5cm D. 3.4cm
14	The center of circle $(x+3)^2 + (y-2)^2 = 16$ equals:	A. (-3, 2) B. (3, -2) C. (3, 2) D. (-3, -2)
15	The pair of lines of homogeneous second-degree equation $ax^2 + 2hxy + by^2 = 0$ are real and coincident, if:	A. $h^2 < ab$ B. $h^2 > ab$ C. $h^2 = ab$ D. None of these
16	Question Image	A. sec x tan x B. $sec^2 x$ C. -sec x tan x

D. $-\sec^2 x$

17	Let f(x) = cos x, then f(x) is an:	A. Even function B. Odd function C. Power function D. None of these
18	The point where the axis meets the parabola is called _____ of the parabola:	A. Directrix B. Vertex C. Focus D. Eccentricity
19	The directrix of the parabola $x^2 = 4ay$ is:	A. x = a B. x = -a C. y = a D. y = -a
20	The conic is a parabola, if:	A. e = 1 B. e > 1 C. 0 < e < 1 D. e = 0