FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	C. 0 D. 1
2	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
3	Question Image	A. Parallel lines B. Perpendicular lines C. Non-parallel lines D. None of these
4	$y = b$ is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis D. None of these
5	Question Image	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \sin x + c$
6	Question Image	A. Open B. Closed C. Open as well as closed D. None of these
7	Question Image	A. 4 B. 2 C. 1
8	The point (5, 8) lies the line $2x - 3y + 6 = 0$	A. Above B. Below C. On D. None
9	Perpendicular dropped from the center of a circle on a chord _____ the chord:	A. Normal B. Bisects C. Equal to D. None of these
10	Question Image	A. 1 B. 2 C. 3 D. 0
11	Question Image	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x + c$ D. $-\sec x + c$
12	Question Image	A. sin x B. cos x C. sinh x D. cosh x
13	If a circle and a line intersect in two points, then the line is called:	A. A chord B. A secant C. A diameter D. None of these
14	The conic is a parabola, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
15	Question Image	A. Unit Vector B. Null vector C. Position vector D. None of these
16	A line segment whose end points lie on the circle is called a _____ of the circle.	A. Radius B. Chord C. Diameter

17	Question Image	A. 0 B. 1 C. 2 D. 4
18	If y = sin x then dy =	A. cosy dx B. cos x C. cosx dx D. cos xdy
19	Question Image	
20	If the focus lies on the y - axis with coordinates F(0, a) and directrix of the parabola is y = -a, then the equation of parabola is:	A. $x^2 = 4ay$ B. $-x^2 = 4ay$ C. $-y^2 = 4ax$ D. $y^2 = 4ax$