

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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
2	Question Image <input type="text"/>	A. Open B. Closed C. Open as well as closed D. None of these
3	Question Image <input type="text"/>	A. Constant B. Implicit C. Explicit D. Inverse
4	If $r$ is the radius of the circle and its center is at origin, then equation of circle is:	A. $x^2 + y^2 = a^2$ B. $x^2 + y^2 = r^2$ C. $x^2 - y^2 = a^2$ D. $x^2 - y^2 = r^2$
5	Notation $Df(x)$ for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
6	A linear equation in two variables represents:	A. Circle B. Ellipse C. Hyperbola D. Straight line
7	$ax + by + c = 0$ , will represent equation of straight line parallel y-axis if:	A. $a = 0$ B. $b = 0$ C. $c = 0$ D. $a = 0, c = 0$
8	$f(x)$ is odd function. If and only if:	A. $f(-x) = -f(x)$ B. $f(-x) = f(x)$ C. $f(x) = 3f(-x)$ D. $f(x) = -3f(-x)$
9	$y - y_1 = m(x - x_1)$ is the equation of straight line in:	A. Slope-intercept from B. Point-slope from C. Normal form D. Intercepts form
10	A null vector is defined as a vector whose magnitude is:	A. 1 B. 2 C. 0 D. None of these
11	Question Image <input type="text"/>	A. $e^{ax}$ B. $f(x)$ C. $e^{ax} f(x)$ D. $e^{ax} + f(x)$
12	If the directed distances AP and PB have the opposite signs, i.e; p is beyond AB, then their ratio is negative and P is said to divide AB:	A. Internally B. May divide C. Externally D. None of these
13	If $y = f(u)$ and $u = F(x)$ , then:	
14	If $r$ is the radius of any circle and C its center, then any point $P(x_1, y_1)$ lies outside the circle only if:	A. $ CP  < r$ B. $ CP  = r$ C. $ CP  > r$ D. None of these
15	$x = c$ is a line:	A. Perpendicular to x-axis B. Parallel to x-axis C. Perpendicular to y-axis D. Parallel to y-axis

		D. None of these
16	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
17	Question Image <input type="text"/>	A. 0 B. 1 C. 2 D. 4
18	The ratio between the measure of the radial segment and the diameter of a circle is:	A. 2 : 1 B. 4 : 3 C. 1 : 2
19	A line through a point say P perpendicular to the tangent to the curve at P is called:	A. Straight line B. Tangent line C. Normal line D. None of these
20	Question Image <input type="text"/>	A. Common logarithmic B. Natural logarithmic C. Exponential D. None of these