

## FA Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	Question Image	A. Constant B. Implicit C. Identity D. Inverse
2	Which one is an identity function ?	B. $f(x) = g(x)$ C. $f(x) = x$ D. $f(x) = 1$
3	Question Image	A. One variable B. Three variable C. Two variable D. Four variable
4	Question Image	A. Unit Vector B. Null vector C. Position vector D. None of these
5	The graph of the parabola $y^2 = -4ax$ is symmetric about:	A. x-axis B. major axis C. y-axis D. minor axis
6	The line $x = a$ is on the right of y - axis if:	A. $a > 0$ B. $a < 0$ C. $a = 0$
7	The feasible region is _____ if it can easily be enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
8	Question Image	A. Continuous at $x = 1$ B. Not continuous at $x = 1$ C. Both a and b D. none
9	If a variable y depends on a variable x in such a way that each value of x determines exactly one value of y, then y is a _____ of x.	A. Independent variable B. Not function C. Function D. None of these
10	Question Image	A. Line parallel to x-axis B. Line parallel to y-axis C. Line passing through the origin D. Both (a) and (b)
11	Question Image	A. Volume of the tetrahedron B. Volume of the parallelepiped C. Volume of the triangle D. None of these
12	Question Image	A. $\cot x$ B. $-\cot x$ C. $\operatorname{cosec} x \cot x$ D. $-\operatorname{cosec} x \cot x$
13	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
14	$ax + by + c = 0$ , will represent equation of straight line parallel y-axis if:	A. $a = 0$ B. $b = 0$ C. $c = 0$ D. $a = 0, c = 0$
15	Question Image	A. $e^{\sin x} \sin x + c$ B. $-e^{\sin x} \sin x + c$ C. $e^{\cos x} \cos x + c$ D. $-e^{\cos x} \cos x + c$
		A. Straight line

16	A line that touches the curve without cutting through it is called:	B. Tangent line C. Normal line D. Vertical line
17	Question Image	A. $60^\circ$ B. $90^\circ$ C. $30^\circ$ D. $45^\circ$
18	For any point (x, y) on x-axis:	A. $y = 1$ B. $y = 0$ C. $y = -1$ D. $y = 2$
19	The line l is horizontal if and only if slope is equal to:	A. 0 B. 1 C. 2 D. undefined
20	The system of _____ involved in the problem concerned is called problem constraints:	A. Linear inequalities B. Equations C. Linear equalities D. None of these