

## FA Part 2 Mathematics Full Book Test Online

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

16 A line that touches the curve without cutting through it is called:  
B. Tangent line  
C. Normal line  
D. Vertical line

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17 Question Image  
A.  $60^\circ$   
B.  $90^\circ$   
C.  $30^\circ$   
D.  $45^\circ$

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18 For any point  $(x, y)$  on x-axis:  
A.  $y = 1$   
B.  $y = 0$   
C.  $y = -1$   
D.  $y = 2$

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19 The line  $l$  is horizontal if and only if slope is equal to:  
A. 0  
B. 1  
C. 2  
D. undefined

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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