



## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	$\text{Cosh}^2 x + \text{Sinh}^2 x =$	A. $\text{Cosh } x^{>2</sup></sup>$ B. <span style="color: green;">Cosh 2x</span> C. Sinh 2x D. Tanh 2x
2	$ax + b > c$ is an inequality of:	A. <span style="color: green;">One variable</span> B. Three variable C. Two variable D. Four variable
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 (1 - 4) B. <span style="color: green;">2x - 3</span> C. x - 3 D. $x^{>3</sup></sup> - 3x$
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. 0
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. <span style="color: green;">Common logarithmic</span> B. Natural logarithmic C. Exponential D. None of these
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. <span style="color: green;">2</span> D. 4
7	The inequality $y > b$ is the open half plane to the _____ of the boundary line $y = b$ :	A. Above B. Left C. Below D. <span style="color: green;">Right</span>
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \operatorname{cosec} x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \operatorname{cosec} x + \cot x  + c$
9	There are _____ feasible solutions in the feasible region:	A. Finitely B. Two C. <span style="color: green;">Infinitely many</span> D. Three
10	$x = 3 \cos t, y = 3 \sin t$ represent	A. Line B. <span style="color: green;">Circle</span> C. Parabola D. Hyperbola
11	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined
12	A unit vector is defined as a vector whose magnitude is:	A. 0 B. 2 C. <span style="color: green;">1</span> D. 4
13	If the cone is cut by a plane perpendicular to the axis of the cone, then the section is a / an:	A. Parabola B. Circular cone C. Ellipse D. <span style="color: green;">Circle</span>
14	$x = c$ is a line:	A. <span style="color: green;">Perpendicular to x-axis</span> B. Parallel to x-axis C. Perpendicular to y-axis D. None of these
15	For any point (x, y) and y - axis:	A. $y = 0$ B. $y = -1$ C. $y = 1$ D. <span style="color: green;"><math>x = 0</math></span>
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. cot x B. <span style="color: green;">- cot x</span> C. cosec x cot x D. -cosec x cot x

17	The graph of $2x + y < 2$ is the open half plane which is _____ the origin side of $2x + y = 2$ :	<p>A. At</p> <p>B. Not an</p> <p>C. On</p> <p>D. None of these</p>
18	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:	<p>A. <math>x^2 = 4ay</math></p> <p>B. <math>-x^2 = 4ay</math></p> <p>C. <math>-y^2 = 4ax</math></p> <p>D. <math>y^2 = 4ax</math></p>
19	Question Image 	<p>A. Position vector of O</p> <p>B. Position vector of P</p> <p>C. Unit vector</p> <p>D. Null vector</p>
20	Question Image 	<p>A. Unit vector</p> <p>B. Null vector</p> <p>C. Free vector</p> <p>D. None of these</p>