

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The function $y = \ln x$ is a/an ----- function of $x$ .	A. Constant B. Explicit C. Exponential D. Logarithmic
2	$y = 2x + 3$ is the;	A. Slope-intercept form B. Two points form C. Point slope form D. Intercepts form
3	The point of intersection of the perpendicular bisectors of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
4	Two non parallel lines intersect each other at:	A. 1 point B. 2 points C. 3 points D. 4 points
5	The point of intersection of the altitudes of a triangle is called:	A. Centroid B. Ortho-center C. Circums-center D. In-center
6	If in the case of translation of axes, $O(-3, 2)$ , $(x, y) = (-6, 9)$ then $(X, Y) =$	A. $(-3, 9)$ B. $(-3, 7)$ C. $(-9, 11)$ D. $(3, 7)$
7	In the case of translation of axes which formula is true:	A. $x = X - h$ B. $x = X + h$ C. $x + X = h$ D. None
8	A solution of a linear inequality in $x$ and $y$ is an ordered pair of numbers, which _____ the inequality.	A. Does not satisfy B. May be stisfied C. Satisfies D. None of these
9	Question Image	A. $\tan x$ B. $\cot x$ C. $-\tan x$ D. $-\cot x$
10	The inequality $x < a$ is the open half plane to the _____ of the boundary line $x = a$ :	A. Above B. Left C. Below D. Right
11	A line which divides a plane into two parts is called:	A. Boundary point B. Boundary line C. Feasible line D. None
12	If the graph of $f$ is entirely below the $x$ -axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative
13	$\cosh^2 x - \sinh^2 x =$	A. 1 B. -1 C. 2 D. -2
14	The feasible solution, which maximizes or minimizes the objective function, is called the _____:	A. Maximum solution B. Optimal solution C. Minimum solutions D. None of these
15	The directrix of the parabola $y^2 = 4ax$ is:	A. $x = a$ B. $x = -a$ C. $y = a$ D. $y = -a$

16	The axis of the parabola $y^2 = 4ax$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
17	The axis of the parabola $y^2 = -4ax$ is:	A. $x = a$ B. $x = 0$ C. $y = a$ D. $y = 0$
18	The point of a parabola which is closest to the focus is the:	A. Directrix B. Vertex C. Focus D. Chord
19	Question Image	A. x with respect to y B. y with respect to y C. y with respect to x D. x with respect to x
20	If $y = f(x)$ , then the variable x is called ----- variable of a function f.	A. Dependent B. Independent C. Image of y D. None of these