

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	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. Circle
2	The symbol $y = f(x)$ i.e. y is equal to f of x, invented by Swiss mathematician-----:	A. Euler B. Cauchy C. Leibniz D. Newton
3	Question Image	A. $x = a$ B. for all x D. $x = 0$
4	Question Image	A. $\tan x$ B. $\cot x$ C. $-\tan x$ D. $-\cot x$
5	$x = 4$ is a line:	A. Parallel to x - axis B. Parallel to y - axis C. Perpendicular to y-axis D. None of these
6	A line segment having both the end-points on a circle and not passing through the center is called a:	A. A chord B. A secant C. A diameter D. None of these
7	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
8	If the degree of a polynomial function is -----, then it is called a linear function:	A. 0 B. 1 C. 2 D. 3
9	The axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = -a$ C. $y = 0$ D. $y = -a$
10	The pair of lines of homogeneous second-degree equation $ax^2 + 2hxy + by^2 = 0$ are real and coincident, if:	A. $h^2 < ab$ B. $h^2 > ab$ C. $h^2 = ab$ D. None of these
11	Question Image	
12	The linear function $f(x) = ax + b$ is an identity function if:	A. $a = 0, b = 1$ B. $a = 1, b = 0$ C. $a = 1, b = 1$ D. $a = 0, b = 1$
13	Question Image	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \sin x + c$
14	Inclination of Y-axis or of any line parallel to Y-axis is:	B. Zero D. Undefined
15	Question Image	
16	Question Image	A. $f(x)$ B. $\ln f(x) $ C. $f'(x)$ D. $\ln f'(x) $
17	Question Image	
18	The distance between the points $(1, 2), (2, 1)$	A. 1

18 The distance between the points $(1, 2)$, $(2, 1)$.

D. 2

19 Question Image

20 Question Image

A. 4
B. Does not exist