

ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	$f(x) = \sin x + \cos x$ is ----- function:	A. Even B. Odd C. Composite D. Neither even nor odd function
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. a cosec $(ax + b)$ D. cot $(ax + b)$
3	Which one is a constant function ?	A. $f(x) = x^2$ B. $f(x) = x$ C. $f(x) = x + 1$ D. $f(x) = 14$
4	If the equation of the parabola is $y^2 = -4ax$, then opening of the parabola is to the _____ of the y-axis:	A. Left B. Upward C. Right D. Downward
5	The distance between the center of a circle and any point of the circle is called:	A. Tangents B. Secant C. Diameter D. Radius
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sec x \tan x$ B. $-\sec^2 x$ C. $-\sec x \tan x$ D. $\sec^2 x$
7	$f(x) = x \sec x$, then $f(0) =$	A. -1 B. 0 C. 1
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $5 \sin x$ B. $\cosh(5x)$ C. $5 \cosh(5x)$ D. $-5 \cosh(5x)$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	The conic is an ellipse, if:	A. $e = 1$ B. $e > 1$ C. $0 < e < 1$ D. $e = 0$
11	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective function C. Minimum function D. None of these
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
13	The line l is horizontal if and only if slope is equal to:	A. 0 B. 1 C. 2 D. undefined
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	If $f(x) = x $, $f(x)$ is a:	A. Constant function B. Absolute function C. Linear function D. Quadratic function
16	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
17	Equation of the line parallel to $x + 3y - 9 = 0$ is:	A. $3x - y - 9 = 0$ B. $3x + 9y + 7 = 0$ C. $2x - 6y - 18 = 0$

D. $x - 3y + 9 = 0$

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- 18 Every relation, which can be represented by a linear equation in two variables, represents a:
- A. Graph
 - B. Function
 - C. Cartesian product
 - D. Relation
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- 19 The inequality $y > b$ is the open half plane to the _____ of the boundary line $y = b$:
- A. Above
 - B. Left
 - C. Below
 - D. Right
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- 20 The graph of the parabola $y^2 = -4ax$ is symmetric about:
- A. x-axis
 - B. $y = x$
 - C. y-axis
 - D. None of these
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