

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The term $dy$ (or $df$ ) = $f'(x) dx$ is called the _____ of the dependent variable $y$ .	A. Differentiation B. Integration C. Differential D. None of these
2	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
3	$y = -2$ is a line:	A. Parallel to x-axis B. Parallel to y-axis C. Perpendicular to x-axis D. None of these
4	The feasible region is _____ if it can easily be enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $\cot x + c$ D. $-\cot x + c$
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 3 B. 4 C. 5 D. 6
7	If $f(x) = \cos x$ then $f'(0)$ is equal to:	A. 0 B. -1 C. 1
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\sin x$ B. $\cos x$ C. $\sinh x$ D. $\cosh x$
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	A function, in which the variables are _____ numbers, then function is called a real valued function of real numbers.	A. Complex B. Rational C. Real D. None of these
11	The length of the latus rectum of the parabola $y^2 = 4ax$ is:	A. $a$ B. $4a$ C. $2a$ D. None of these
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
13	If the radius of a circle is zero, then the circle is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 36 B. 42 C. 48 D. 12
15	If a function $f$ is from a set $X$ to a set $Y$ , then set $X$ is called the _____ of $f$ :	A. Domain B. Range C. Co-domain D. None of these
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Unit Vector B. Null vector C. Position vector D. None of these
		A. $f(x)$ B. ...

17	<input type="text" value="Question Image"/>	<ul style="list-style-type: none"><li>B. <math>\ln  f(x) </math></li><li>C. <math>f'(x)</math></li><li>D. <math>\ln  f'(x) </math></li></ul>
18	If $(1, x)$ is the mid point of the line segment joining the points $(1, 2)$ & $(1, 6)$ then $x =$	<ul style="list-style-type: none"><li>A. 1</li><li>B. 2</li><li>C. 3</li><li>D. 4</li></ul>
19	<input type="text" value="Question Image"/>	<ul style="list-style-type: none"><li>A. <math>2\cosh x</math></li><li>B. <math>2\sinh x</math></li><li>C. <math>2\sinh (2x)</math></li><li>D. <math>-2\sinh (2x)</math></li></ul>
20	<input type="text" value="Question Image"/>	<ul style="list-style-type: none"><li>A. Derivative</li><li>B. Differential</li><li>C. Integral</li><li>D. None of these</li></ul>