

## ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The radius of point circle is:	A. 0 B. (0, 0) C. r D. 1
2	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
3	Equation of axis of the parabola $x^2 = 4ay$ is:	A. $x = 0$ B. $x = a$ C. $y = 0$ D. $y = a$
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $f(x^{>2</sup> + 1)$ B. $f(x)$ D. $f(x^{>2</sup>})$
5	The equation of a straight line which parallel to the line $3x - 2y + 5 = 0$ and passes through (2, -1) is:	A. $3x + 2y - 8 = 0$ B. $3x - 2y + 8 = 0$ C. $3x - 2y - 8 = 0$ D. $3x + 2y + 8 = 0$
6	The range of the function $f(x) =  x $	
7	If a variable $y$ depends on a variable $x$ in such a way that each value of $x$ determines exactly one value of $y$ , then $y$ is a _____ of $x$ .	A. Independent variable B. Not function C. Function D. None of these
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	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
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Line parallel to $x$ - axis B. Line parallel to $y$ - axis C. Inclined D. Both (a) and (b)
12	The operation _____ by a positive constant to each side of inequality will affect the order (or sense) of inequality:	A. Adding B. Subtracting C. Multiplying D. None of these
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a \operatorname{cosec}(ax + b)$ D. $\cot(ax + b)$
14	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
15	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
16	A unit vector is defined as a vector whose magnitude is:	A. 0 B. 2 C. 1 D. 4
17	A line which divides a plane into two parts is called:	A. Boundary point B. Boundary line C. Feasible line D. None
		A. Lagrange

18	Question Image <input type="text"/>	B. Newtown C. Leibniz D. Cauchy
19	Question Image <input type="text"/>	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
20	$y = mx + c$ is the equation of straight line in:	A. Slope-intercept form B. Two points from C. Point slope form D. Intercepts form