ICS Part 2 Mathematics Full Book Test Online

Sr	Questions	Answers Choice
1	The set of all points in the plane that are equally distant from a fixed point is called a / an:	A. Circle B. Circular cone C. Ellipse D. Point circle
2	For different values of k, the equation $4x + 5y = k$ represents lines _____ to the line $4x + 5y = 0$.	A. Perpendicular B. Parallel C. Equal D. None of these
3	Question Image	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
4	Question Image	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x \tan x + c$ D. $-\sec x \tan x + c$
5	Question Image	A. 1 B. 2 C. 3 D. 4
6	If $y = (x)$, then the variable x is called --------- variable of a function f.	A. Dependent B. Independent C. Image of y D. None of these
7	If a pair of opposite sides of a quadrilateral are equal and parallel then it is:	A. Rectangle B. Rhombus C. Parallelogram D. None of these
8	The area A of a circle as a function of its circumference C is:	
9	Question Image	A. 0 B. 2 C. 1 D. 3
10	Question Image	A. 0 B. 1 C. -1 D. 2
11	The condition for the line $y = mx + c$ to be a tangent to the circle $x^2 + y^2 = a^2$ is $c =$ _____:	
12	Question Image	A. 4a B. 2a C. 4b D. 2b
13	Question Image	A. $-\csc x \cot x$ B. $\csc^2 x$ C. $-\csc^2 x$ D. $\csc x \cot x$
14	Question Image	A. $\cot x$ B. $-\cot x$ C. $\csc x \cot x$ D. $-\csc x \cot x$
15	Every relation, which can be represented by a linear equation in two variables, represents a:	A. Graph B. Function C. Cartesian product D. Relation
16	Point p (-5, 6) lies .... the circle $x^2 + y^2 + 4x - 6y - 12 = 0$	A. Outside B. Inside C. On D. None of these

17	If f(x) = cos x then f'(0) is equal to:	A. 0 B. -1 C. 1
18	The vertical line y'oy is called:	A. x-axis B. y-axis C. abscissa D. Ordinate
19	The distance between two points P_1 (x_1, y_1) and P_2 (x_2, y_2) on the co-ordinate plane is given by:	
20	The distance between the center of a circle and any point of the circle is called:	A. Tangents B. Secant C. Diameter D. Radius