

## ICS Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. Constant function     B. Absolute linear function     C. Linear function     D. Quadratic function
2	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
3	Let $f(x) = x^2 + 3$ , then domain of f is:	A. Set of all integers     B. Set of natural numbers     C. Set of real numbers     D. Set of rational numbers
4	Let $f(x) = x^2$ , then range of f is the set of all:	A. Real numbers B. Non-negative real numbers C. Non-negative integers D. Complex numbers
5	Question Image	A. Implicit B. Explicit C. Exponential D. Logarithmic
6	$x = 3 \cos t$ , $y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Hyperbola
7	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
8	Which one is an identity function ?	B. $f(x) = g(x)$ C. $f(x) = x$ D. $f(x) = 1$
9	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
10	Every relation, which can be represented by a linear equation in two variables, represents a:	A. Graph B. Function C. Cartesian product D. Relation
11	Parametric equations x = a cos t, y = a sin t represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
12	Question Image	A. Common logarithmic B. Natural logarithmic C. Exponential D. None of these
13	Question Image	A. 1 B. 2 C. 3 D. 4
14	A function $P(x) = 6x^4 + 7x^3 + 5x + 1$ is called a polynomial function of degree with leading coefficient	A. 4, 6 B. 2, 7 C. 2, 3 D. 2, 5
15	If $f(x) =  x $ , $f(x)$ is a:	A. Constant function B. Absolute function C. Linear function D. Quadratic function

16	Question Image	
17	$f(x) = \sin x + \cos x$ is function:	A. Even B. Odd C. Composite D. Neither even nor odd function
18	Let $f(x) = \cos x$ , then $f(x)$ is an:	A. Even function B. Odd function C. Power function D. None of these
19	$\cosh^2 x + \sinh^2 x =$	A. Cosh x <sup>2</sup> B. Cosh 2x C. Sinh 2x D. Tanh 2x
20	Let $f(x) = x^2$ , real valued function then domain of f is the set of all:	A. Real numbers B. Integers C. Positive numbers D. Natural numbers