

FA Part 2 Mathematics Chapter 1 Test Online

Sr	Questions	Answers Choice
1	Which one is an exponential function?	
2	The range of the function $f(x) = x $	
3	Question Image	A. Undefined B. 3a ² C. a ² D. 0
4	f (x) = x secx, then f(0)=	A1 B. 0 C. 1
5	The linear function $f(x) = ax + b$ is an identity function if:	A. a = 0, b = 1 B. a = 1, b = 0 C. a = 1, b = 1 D. a = 0, b = 1
6	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
7	Question Image	
8	f(x) is odd function. If and only if:	A. $f(-x) = -f(x)$ B. $f(-x) = f(x)$ C. $f(x) = 3f(-x)$ D. $f(x) = -3f(-x)$
9	Question Image	A. Constant function B. Absolute linear function C. Linear function D. Quadratic function
10	$\cosh^{-1}x =$	
11	If y is an image of x under the function f, we denote it by:	A. x = f(y) B. x = y C. y = f(x) D. f(x, y) = c
12	The term function was introduced by:	A. Euler B. Newton C. Lagrange D. Leibniz
13	If x and y are so mixed up and y cannot be expressed in terms of the independent variable x, then y is called a/an function of x.	A. Constant B. Explicit C. Implicit D. Inverse
14	Question Image	A. Implicit B. Explicit C. Exponential D. Logarithmic
15	If the degree of a polynomial function is, then it is called a linear function:	A. 0 B. 1 C. 2 D. 3
16	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
17	Question Image	A. 4, -4 B. 0 C. 2, -2 D. 0, 4
18	Question Image	A. Parabola B. Hyperbola

		D. Circle
19	Question Image	A. 4 B. Does not exist
20	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
21	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
22	Let $f(x) = x^3 + \sin x$, then $f(x)$ is:	A. Even function B. Odd function C. Power function D. None of these
23	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
24	Question Image	
25	Question Image	A. Continuous at x = 1 B. Not continuous at x = 1 C. Both a and b D. none
26	Question Image	A. Line B. Parabola C. Ellipse D. Hybperbola
27	tanh x =	
28	Inverse hyperbolic functions are expressed in terms of natural:	A. Numbers B. Exponential C. Logarithms D. Sines
29	Which one is an identity function ?	B. f(x) = g(x) C. f (x) = x D. f(x) = 1
30	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
31	Question Image	A. 1 B. 2 C. 3 D. 4
32	Question Image	A. R B. R - {2} C. R - {2, -2} D. R - {-2}
33	A function, in which the variable appears as exponent (power), is called a $\!\!\!/$ anfunction.	A. Constant B. Explicit C. Exponential D. Inverse
34	Parametric equations $x = a \cos t$, $y = a \sin t$ represent the equation of:	A. Line B. Circle C. Parabola D. Ellipse
35	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
36	The symbol $y = f(x)$ i.e. y is equal to f of x , invented by Swiss mathematician:	A. Euler B. Cauchy C. Leibniz D. Newton
37	Question Image	A. Common logarithmic B. Natural logarthmic C. Exponential D. None of these

38	Question Image	A. 0 B. 1
30	Quociton in ago	C. e D. Does not exist
39	$Cosh^2 x - Sinh^2 x =$	A. 1 B1 C. 2 D2
40	$f(x) = \sin x + \cos x$ is function:	A. Even B. Odd C. Composite D. Neither even nor odd function
41	$x = 3 \cos t$, $y = 3 \sin t$ represent	A. Line B. Circle C. Parabola D. Hyperbola
42	Question Image	A. Constant B. Implicit C. Explicit D. Inverse
43	Question Image	A. sin x B. cos x C. sinh x D. cosh x
44	Question Image	A. Constant B. Implicit C. Identity D. Inverse
45	The function y = ln x is a/an function of x.	A. Constant B. Explicit C. Exponential D. Logarithmic
46	The area A of a circle as a function of its circumference C is:	
47	Which one is not an exponential function?	
48	$x^2 + y^2 = 4$ is:	A. Function B. Not a function C. Ellipse D. Line
49	Question Image	A. 0 B. 2 C. 1 D. 3
50	If $f(x) = x $, $f(x)$ is a:	A. Constant function B. Absolute function C. Linear function D. Quadratic function
51	Question Image	A. Even B. Odd C. One-one D. Zero
52	Which one is a constant function ?	A. $f(x) = x < sup > 2 < / sup >$ B. $f(x) = x$ C. $f(x) = x + 1$ D. $f(x) = 14$
53	Every relation, which can be represented by a linear equation in two variables, represents a:	A. Graph B. Function C. Cartesian product D. Relation
54	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
55	Question Image	A. f(x ² + 1) B. f(x) D. f(x ²)
56	Let $f(x) = \cos x$, then $f(x)$ is an:	A. Even function B. Odd function C. Power function D. None of these