

Mathematics ECAT Pre Engineering Online Test

Sr	Questions	Answers Choice
1	Question Image	A. $\sinh x$ B. $\cosh x$ C. $\sec h x$ D. $\operatorname{cosec} h x$
2	Question Image	A. $\sinh x$ B. $\cosh x$ C. $\tan h x$ D. $\cot h x$
3	Question Image	A. $\sinh x$ B. $\cosh x$ C. $\tan h x$ D. $\cot h x$
4	$\sec h x =$ _____	
5	$\tan h x =$ _____	
6	Question Image	
7	$\sin h x =$ _____	
8	$f(x) = ax + b$ will be an identity function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
9	An open sentences formed by using the sign of equality '=' is called _____	A. An identity B. An equation C. A polynomial D. None of these
10	$f(x) = ax + b$ will be a constant function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
11	$x^2 + x - 6 = 0$ is	A. An equation B. An identity C. A polynomial D. None of these
12	$x^3 + 2x^2 - 3x + 5$ is _____	A. An equation B. A polynomial C. Proper rational fractions D. Improper rational fractions
13	In natural logarithm the base is	A. 1 B. 0 C. 10 D. e
14	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
15	Question Image	A. Polynomial B. Equation C. Improper rational fraction D. Proper rational fraction
16	$f(x) = 1$ is	A. identity function B. constant function C. linear function D. quadratic function
17	$f(x) = x$ is	A. trigonometric function B. exponential function C. quadratic function D. identity function
18	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function

19	Question Image	A. quadratic function B. constant function C. linear function D. exponential function
20	$f(x) = C$ is	A. identity function B. constant function C. linear function D. quadratic function
21	$f(x) = 2^x + 3 \cdot 2^{2x} + 5$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
22	$f(x) = \log x + 3$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
23	$f(x) = \sin x + \cos^2 x$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
24	Question Image	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
25	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
26	If $y=f(x)$ is a function then y is called	A. dependent variable B. independent variable C. constant D. none of these
27	If $y=f(x)$ is a function then x is called	A. dependent variable B. independent variable C. constant D. none of these
28	If $f(x) = x + 1$ then $f(z^2-1)$ is	A. z^2+2 B. z^2+2 C. z^2-2 D. none of these
29	Question Image	A. 0 B. 1 C. 2 D. 1/2
30	Question Image	A. 0 B. 1 C. 2