

ECAT Pre Engineering Entry Test

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

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