

## ECAT (Pre-Eng) Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
2	Question Image	
3	$f(x) = 2^x + 3 \cdot 2^{2x} + 5$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
4	$\sin^{-1}x =$ _____	
5	Question Image	
6	Question Image	A. image B. pre-image C. constant D. none of these
7	If $f(x) = x^3$ then $f(-2)$ is	A. -2 B. -4 C. -8 D. 8
8	The domain of $f(x) = \log x$ is	A. $[0, \infty)$ B. $(0, \infty)$ C. $[0, \infty)$ D. $[-\infty, \infty)$
9	Question Image	A. 1/8 B. 1/2 C. 1/4 D. 1/6
10	Question Image	
11	Question Image	A. -1 B. 1 C. 2 D. -2
12	Question Image	A. 0 B. 1 C. 1/2
13	If $f(x) = \sqrt{x}$ then $f(0)$ is	A. 0 B. 1 C. -

	$f(x) = ax + b$ is	C. 2 D. none of these
14	$f(x) = ax + b$ will be an identity function if	A. $a = 1, b = 1$ B. $a = 1, b = 0$
15	Question Image	A. 1 B. 0 C. -2 D. 3
16	For $f(x) = x^2$ , what is the value of $f(a) + f(-a)$ in terms of $a$ ?	A. $3a^2$ B. $2a^2$ C. $2a$ D. $-7a$
17	$f(x) =  x $ is a/an	A. Injective function B. Bijective function C. Surjective function D. Implicit function
18	Question Image	A. images B. pre-images C. constants D. none of these
19	Question Image	A. 0 B. 1 C. 2
20	Question Image	A. 2 C. -2 D. none of these