

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

Sr	Questions	Answers Choice
1	$\sin h x =$ _____	
2	Question Image	
3	Question Image	
4	If $f(x) = x^3 - 2x^2 + 4x - 1$, then $f(-2) = ?$	A. 0 B. -25 C. 5 D. 45
5	$f(x) = \log x + 3$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
6	A function f is said to be an even if $f(-x) =$	A. 0 B. 1 C. $f(x)$ D. $-f(x)$
7	Question Image	A. $f(x) = x^{>2}$ B. $f(x^{>2}) = x$ C. $f(x) = x$ D. none of these
8	Question Image	A. 0 B. 1 C. 1/2
9	Question Image	
10	Question Image	A. 0 B. 1 C. -1 D. none of these
11	Question Image	
12	If $f(x) = x^2$ then $f(0)$ is	A. 0 B. 1 C. 2 D. none of these
13	Question Image	
14	Question Image	A. 0 B. 1 C. 2
15	Question Image	A. Does not exist because f is unbounded B. Is not attained even though f is bounded C. Is equal to 1 D. Is equal to -1
16	The range of function $f(x) = -x^2 + 2x - 1$ is	A. R B. $(-\infty, 0]$ C. $(-\infty, 1]$ D. $[0, \infty)$
17	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
18	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
19	Question Image	

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The function $f : x \rightarrow y$ defined as $f(x) = a \forall x \in X, a \in y$ is called

- A. Constant function
- B. Polynomial function
- C. Identity function
- D. Linear function