

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

Sr	Questions	Answers Choice
1	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
2	The function $f: x \rightarrow y$ defined as $f(x) = \alpha \forall x \in X, \alpha \in y$ is called	A. Constant function B. Polynomial function C. Identity function D. Linear function
3	In natural logarithm the base is	A. 1 B. 0 C. 10 D. e
4	$p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree	A. 1 B. 2 C. 3 D. 4
5	A rule or correspondence that assigns to each element $x$ in $X$ a unique element $y$ in $Y$ is called a function from	A. X to X B. X to Y C. Y to X D. none of these
6	Question Image	A. 0 B. 1 C. 1/2
7	Point (2,0) lies on trigonometric function f(x)=;	A. sinx B. cosx C. tanx D. secx
8	Question Image	A. 0 B. 3 C. 9 D3
9	The domain of the function $x/x^2$ -4 is given by	A. R B. R + 2 C. [R - ( <u>+</u> 2) D. R-4
10	Question Image	A. image B. pre-image C. constant D. none of these
11	Question Image	A. quadratic function B. constant function C. trigonometric function D. linear function
12	Question Image	A. [0,1[ B. [0, 1] C. ]0, 1[ D. None of these
13	Domain of y = scs x is	A. All real numbers except $\pi/2 + n^*\pi$ B. R C. All negative integers D. None of these
		A. 0 B25
14	If $f(x) = x^3 - 2x^2 + 4x - 1$ , then $f(-2) = ?$	C. 5 D. 45
15	Question Image	A. 0 B. 1 C. 2
		<u>A</u> . 0

16	If $f(x) = x^2-x$ then $f(1)$ is	B. 1 C. 2 D. 3
17	Question Image	
18	If $f(x) = x^3 - 2x^2 + 4x - 1$ then $f(0)$ is	A. 0 B. 1 C1 D. none of these
19	If $f(x) = (-x)^2$ then $f(-2)$ is	A. 0 B. 2 C4 D. 4
20	f(x) = x3-x/x2+1 is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd