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

Sr	Questions	Answers Choice
1	Question Image	
2	The periods of the function f(x) = x[x] is	A. 1 B. 2 C. Non periodic D. None of these
3	If y=f(x) is a function then x is called	A. dependent variable B. independent variable C. constant D. none of these
4	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
5	The range of y=x2 + 1 is the set of non-negative real numbers except	A. 0≤ y < 1 B. 0 < y < 1 C. 0≤ y≤ 1 D. 0 < y≤1
6	The range of inequality x + 2 > 4 is	A. (-1, 2) B. (-2, 2) C. (1,∞) D. None
7	f(x) = ax + b will be an identity function if	A. a = 1 , b = 1 B. a = 1 , b = 0
8	In natural logarithm the base is	A. 1 B. 0 C. 10 D. e
9	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
10	Question Image	A. 2 B. -1 C. 8 D. not defined
11	Question Image	
12	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
13	If f(x) = x^3- $2x^2$+ 4x -1 then f(2) is	A. 7 B. -16 C. 16 D. -9
14	Question Image	
15	If f (x) = 2x+1 then fof (x) = _____;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
16	Every relation, which can be represented by a linear equation in two variables, represents a	A. Relation B. Cartesian product C. Function D. Graph

17	If $f(x) = x^3 - 2x^2 + 4x - 1$, then $f(-2) = ?$	A. 0 B. -25 C. 5 D. 45
18	f(x) = C is	A. identity function B. constant function C. linear function D. quadratic function
19	Question Image	
20	Question Image	A. π B. 2π C. π/2 D. None of these