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

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. 8 D. ∞
2	Question Image	A. 0 B. 1 C. 1/2
3	Question Image	A. π B. 2π C. $\pi/2$ D. None of these
4	f(x) = C is	A. identity function B. constant function C. linear function D. quadratic function
5	The range of y=x2 + 1 is the set of non-negative real numbers except	A. $0 \leq y < 1$ B. $0 < y < 1$ C. $0 \leq y \leq 1$ D. $0 < y \leq 1$
6	f(x) = sin x + cos^{2}x is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
7	p(x) = 2x^4- 3x^3+ 2x - 1 is polynomial of degree	A. 1 B. 2 C. 3 D. 4
8	If f(x) = -x^{3}then f(-2) is	A. -2 B. -4 C. -8 D. 8
9	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
10	Question Image	A. x = f(y) B. y = f(x) C. x = f(x) D. y = f(y)
11	Every relation, which can be represented by a linear equation in two variables, represents a	A. Relation B. Cartesian product C. Function D. Graph
12	The function f(x) =|x| is a/an_____function	A. Even B. Odd C. Both even as well as odd D. Neither even nor odd
13	Question Image	A. [0,1[B. [0, 1] C.]0, 1[D. None of these

14	Question Image	A. 0 B. 1 C. 2
15	Question Image	A. 0 B. 1 D. none of these
16	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
17	Which is not included in the domain of $\cos^{-1}x$	A. 0 B. 1 C. -1 D. 2
18	The set of points $\{(x,y)|y = f(x), \forall x \in \}$ is called	A. Relation B. Graph of f C. Function D. All are correct
19	The value of x which is unchanged by the mapping in the function defined by f ; x$\square$ x^2 + 5x -5 for x> 0 is	A. 1 B. 5 C. -5 D. -1
20	A function from X to X is denoted as	B. f : X to Y D. f : Y to Y