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

Sr	Questions	Answers Choice
1	If f(x) = x^2then f(2) is	A. -2 B. 2 C. 4 D. -4
2	Question Image	A. 2 B. 4 C. 8 D. 12
3	Every relation, which can be represented by a linear equation in two variables, represents a	A. Relation B. Cartesian product C. Function D. Graph
4	Question Image	A. 0 B. 1 C. 8 D. ∞
5	The domain of y =√(x^2-9) is	A. R B. (0 , +∞) C. (-∞ , -3) U (3 , +∞) D. (0 ,∞)
6	Express the perimeter P of square as a function of its area A?	A. P = 4√A B. P =√A C. P = 2A D. P =π√A
7	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
8	The domain of y = cos-1 x is	A. -∞ < x < ∞ B. -1≤ x≤ 1 C. x≤ -1 or x ≥ 1 D. None of these
9	Question Image	
10	p(x) = $2x^4$- $3x^3$+ 2x - 1 is polynomial of degree	A. 1 B. 2 C. 3 D. 4
11	Question Image	
12	f(x) = sin x is:	A. an odd function B. an even function C. an implicit function D. an exponential function
13	If f(x) = x^2- x then f(2) is	A. 4 B. 6 C. 2 D. 0
14	Question Image	
15	Which is an explicit function	A. y = x²+ 2x - 1 B. x²+ xy + y²= 2 C. x²+ y²= xy + 2 D. All are
		A. 0

16	If $f(x) = x^2-x$ then f(0) is	B. 1 C. 2 D. 3
17	$f(x) = 3x^4 -2x^2 + 7$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
18	Question Image	
19	Question Image	A. R/[0,4] B. R/(0,4) C. (0,4) D. [0,4]
20	Question Image	A. sin h x B. cos h x C. sec h x D. cosec h x