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

Sr	Questions	Answers Choice
1	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
2	Question Image	A. 2 B. 6
3	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
4	A function F(x) is called even if	A. F(x) = F (-x) B. F(x) = F(-x) C. F(x) = -F(x) D. 2F(x) = 0
5	Question Image	
6	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
7	Question Image	A. 0 B. 1 D. -1
8	A rule that assigns to each elements x in X a unique element y in Y is called a _____	A. domain B. range C. function D. none of these
9	$f(x) = x^3$is:	A. an odd function B. an even function C. an implicit function D. a quadratic funtion
10	Which is an explicit function	A. y = x²+ 2x - 1 B. x²+ xy + y²= 2 C. x²+ y²= xy + 2 D. All are
11	$\cos h^2 x + \sin h^2 x$	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
12	The period $\sin^2\theta$is	A. π² B. π C. 2π D. π/2
13	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
14	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
15	If $f(x) = x^2$- x then f(-2) is	A. 4 B. 6 C. 2 D. 0

16	Question Image	A. 2 B. 1 C. 5 D. 0
17	Domain of y = scs x is	A. All real numbers except π/2 + n*π B. R C. All negative integers D. None of these
18	if the value of the sphere, v =4/3πr^{2,} then the which of the following statement is true?	A. r is the function of v B. v is the function ofπ C. π is independent variable D. None of these
19	If f (x) = 2x+1 then fof (x) = _____;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
20	If f(x) = x^{2}- x then f(2) is	A. 4 B. 6 C. 2 D. 0