

ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	sin h x =	
2	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
3	Express the perimeter P of square as a function of its area A?	A. $P = 4\sqrt{A}$ B. $P = \sqrt{A}$ C. $P = 2A$ D. $P = \pi\sqrt{A}$
4	$f(x) = 3x/x^2 + 1$ is:	A. an even functionB. an odd functionC. an even and implicit functionD. neither even nor a odd
5	If $f(x) = -x^3$ then $f(-2)$ is	A2 B4 C8 D. 8
6	A function from X to Y is written as	B. f : X to Y D. f : Y to Y
7	Question Image	
8	Question Image	A. 0 B. 1 C. 2
9	Question Image	
10	if $f(x) = x^3 - 3x^2 + 5x - 1$, then $f(-\sqrt{2}) =$	A. 7+7√2 B. 3+3√2 C7-7√2 D3-3√2
11	Question Image	
12	What is range of the function g (x) = $ x-3 $?	A. [0,∞) B. (0,∞) C. (-∞,3] D. [0,∞)
13	If the domain of the function f: $x = 2x^3 + 1$ is $\{-1,2,3\}$, the range of the function is	A. {3,2,5} B. {1,3,9} C. {-1,-2,-3} D. {3,9,19}
14	Question Image	A. 0 B. 1 C. 8 D. <i>>∞</i>
15	If $f(x) = x^2 - x$ then $f(2)$ is	A. 4 B. 6 C. 2 D. 0
16	If f (x) = 2x+1 then fof (x) =;	A. 4x+3 B. 2x+3 C. 4x+1 D. None of these
17	$p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree	A. 1 B. 2

	F17	C. 3 D. 4
18	If $f(x) = -x^2$ then $f(-2)$ is	A2 B. 2 C4 D. 4
19	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
20	A function F(x) is called even if	A. $F(x) = F(-x)$ B. $F(x) = F(-x)$ C. $F(x) = -F(x)$ D. $2F(x) = 0$