ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	If f(x) = x^3- $2x^2$+ 4x -1, then f(-2) = ?	A. 0 B. -25 C. 5 D. 45
2	The range of function f(x)=-x2+2x-1 is	A. R B. (-∞,0] C. (-∞,1] D. [0,∞)
3	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
4	Question Image	A. 1/8 B. 1/2 C. 1/4 D. 1/6
5	The largest possible domain of the function: y=√(x) is:	A. (0 ,∞) B. 12 C. (3 , 12) D. (3 ,∞)
6	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
7	Which of the following function form 1 to itself are bi-jective	A. F(x) = x + 3 B. F(x) = x⁵ C. F(x) = 3x + 2 D. F(x) = x²+ x
8	Question Image	A. 0 B. 1 D. none of these
9	Question Image	A. quadratic function B. constant function C. linear function D. exponential function
10	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
11	Question Image	
12	Question Image	A. One-one but not onto B. One-one and onto C. Onto but not one-one D. Neither one-one nor onto
13	For f(x) = x2, what is the value of f(a) +f (-a) in terms of a?	A. 3a2 B. 2a2 C. 2a D. -7a
14	If f(x) = x^2- x then f(-2) is	A. 4 B. 6 C. 2 D. 0
15	Question Image	A. 0 B. 1 C. -1 D. none of these
16	Question Image	A. 3/4 B. r C. v

		D. None of these
17	If $f(x) = x^3 - 2x^2 + 4x - 1$ then f(2) is	A. 7 B. -16 C. 16 D. -9
18	If f(x) = x + 1 then $f(z^2 - 1)$ is	A. z² B. z²+ 2 C. z²- 2 D. none of these
19	Question Image	
20	Question Image	A. 0 B. 1 C. 2