ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	Question Image	
2	The domain the function : $f(x) = x^2$ is given by	A. R B. Set of all non-negative Real numbers C. R⁻¹ D. None of these
3	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
4	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}
5	Question Image	A. R/[0,4] B. R/(0,4) C. (0,4) D. [0,4]
6	Question Image	A. 1/8 B. 1/2 C. 1/4 D. 1/6
7	The set of points {(x,y)|y = f(x), ∀ x∈} is called	A. Relation B. Graph of f C. Function D. All are correct
8	Question Image	A. 2 B. -1 C. 8 D. not defined
9	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
10	A function from A to B is denoted by	A. f: A→ B B. f: B → A C. f: → A :B D. f → A→ B
11	Domain of cosh x is	A. R B. R -{0} C. [1,∞) D. [0,∞)
12	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
13	f(x) = ax + b will be an identity function if	A. a = 1 , b = 1 B. a = 1 , b = 0
14	Question Image	
15	Question Image	
16	x = secθ,y = tanθ are the parametric equations of	A. Circle B. Hyperbola C. Ellipse D. parabola
17	Question Image	

18	Question Image	A. sin h x B. cos h x C. tan h x D. cot h x
19	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
20	Question Image	A. π B. 2π C. π/2 D. None of these