ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	If y=f(x) is a function then y is called	A. dependent variable B. independent variable C. constant D. none of these
2	The periods of the function f(x) = x[x] is	A. 1 B. 2 C. Non periodic D. None of these
3	In the function f: A□B, the elements of a are called	A. Images B. Pre-images C. ranges D. Parameters
4	Question Image	
5	Question Image	
6	The period $\sin^2\theta$ is	A. π² B. π C. 2π D. π/2
7	Question Image	A. 0 B. 1 D. -1
8	Question Image	A. range of f B. domain of f C. both (a) and (b) D. none of these
9	Graph of the question $x^2+ y^2= 4$ is	A. A circle B. An ellipse C. A parabola D. A square
10	Question Image	
11	x = secθ,y = tanθ are the parametric equations of	A. Circle B. Hyperbola C. Ellipse D. parabola
12	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
13	Question Image	
14	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
15	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
16	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
17	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

18	Question Image	
19	Every relation, which can be represented by a linear equation in two variables, represents a	A. Relation B. Cartesian product C. Function D. Graph
20	The domain of f(x) = log x is	A. [0,∞] B. (0,∞) C. [0,∞[D. [∞,∞]