ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	Which is an explicit function	A. y = x²+ 2x - 1 B. x²+ xy + y²= 2 C. x²+ y²= xy + 2 D. All are
2	If y=f(x) is a function then y is called	A. dependent variable B. independent variable C. constant D. none of these
3	if the value of the sphere, $v = 4/3\pi r^2$, 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
4	Question Image	A. One-to-one and onto B. One-to-one but not on to C. Onto but not one-to-one D. Neither one-to-one nor onto
5	Question Image	A. 0 B. 1 C. 2
6	$p(x) = 2x^4 - 3x^3 + 2x - 1$ is polynomial of degree	A. 1 B. 2 C. 3 D. 4
7	If y is an image of x under the function f, then we write	A. y = f(x) B. x = f(y) C. y = x D. none of these
8	Question Image	A. f(x) = x² B. f(x²) = x C. f(x) = x D. none of these
9	Question Image	
10	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
11	Question Image	A. 0 B. -2 C. 1 D. 4
12	The domain of y = cos-1 x is	A. -∞ < x < ∞ B. -1≤ x≤ 1 C. x≤ -1 or x ≥ 1 D. None of these
13	Every relation, which can be represented by a linear equation in two variables, represents a	A. Relation B. Cartesian product C. Function D. Graph
14	If $f(x) = x^2$then f(2) is	A. -2 B. 2 C. 4 D. -4
15	Question Image	
16	Which is not included in the domain of $\cos^{-1}x$	A. 0 B. 1 C. -1 D. 2

17	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
18	If $f(x)= x^3$ then f(-2) is	A. -2 B. -4 C. -8 D. 8
19	Question Image	A. 0 B. 1 D. -1
20	An even function is symmetric about the line	A. y = x B. x = 0 C. y = -x D. y = 0