ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	If $f(x) = x^2$ then f(0) is	A. 0 B. 1 C. 2 D. none of these
2	Question Image	
3	Question Image	A. 0 B. 1 C. 2
4	$f(x) = 2x^2 + 3x + 5$ is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
5	For $f(x) = x^2 + px + 1$, if f(3) = 3 then P =	A. 3/7 B. -2/5 C. -7/5 D. -7/3
6	Question Image	A. 2 C. -2 D. none of these
7	f(x) = C is	A. identity function B. constant function C. linear function D. quadratic function
8	Graph of the question $x^2 + y^2 = 4$ is	A. A circle B. An ellipse C. A parabola D. A square
9	Question Image	A. 2 B. 4 C. 8 D. 12
10	Question Image	A. 0 B. 1 C. -1 D. none of these
11	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
12	A function from X to X is denoted as	B. f : X to Y D. f : Y to Y
13	sec h x = _____	
14	f(x) = log x + 3 is a	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
15	Question Image	
16	A function in which the variable appears as exponent is called:	A. An identity function B. A logarithmic function C. an exponential function D. A rational function
17	The range of the function $f : x \rightarrow y$ is defined by	A. $\{x \mid y = f(x) \forall x \in X \wedge y \in y\}$ B. $\{(x,y) \mid y = f(x) \forall x \in X\}$ C. $\{y \mid y = f(x) \forall x \in X \wedge y \in y\}$ D. Y
18	π is the period of the function	A. |sin x| + |sin x| B. sin⁴x + cos x C. sin (sin x) + sin (cos x)

		C. sin (sin x) + sin (cos x) D. None of these
19	The curve f(x,y) = 0 has a central symmetry if	A. f(-x,-y)=f(x,y) B. f(x,-y)=f(x,y) C. f(-x,y)=f(x,y) D. f(-x,-y)≠f(x,y)
20	Question Image	