ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 D. none of these
2	f(x) = $3x/x^2$ + 1 is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
3	tan h x = _____	
4	The function f(x) =|x| is a/an_____function	A. Even B. Odd C. Both even as well as odd D. Neither even nor odd
5	x = secθ,y = tanθ are the parametric equations of	A. Circle B. Hyperbola C. Ellipse D. parabola
6	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
7	f(x) = 2^x+ 3 . 2^{2x}+ 5 is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
8	If y=f(x) is a function then y is called	A. dependent variable B. independent variable C. constant D. none of these
9	Question Image	
10	Question Image	A. 2 B. -1 C. 8 D. not defined
11	f(x) = x is	A. trigonometric function B. exponential function C. quadratic function D. identify function
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	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
14	Sin $h^{-1}x$ = _____	
15	Composition of functions is	A. Non-commutative (fg ≠ gf) B. non-associative [8(fh) ≠(8f)h] C. Commutative (fg = gf) D. f of-1≠ 1
16	If f(α) = b2 and g (c) =d where c=b2 then (gof)(a) is	A. α B. c C. b D. d
17	Question Image	
18	Question Image	A. 2 B. 4

18	Question Image	C. 8 D. 12
19	f(x) = C is	A. identity function B. constant function C. linear function D. quadratic function
20	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