ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	The largest possible domain of the function: $y=\sqrt{(x)}$ is:	A. (0 ,∞) B. 12 C. (3 , 12) D. (3 ,∞)
2	Question Image	A. π B. 2π C. π/2 D. None of these
3	If f(α) = b2 and g (c) =d where c=b2 then (gof)(a) is	A. α B. c C. b D. d
4	If f (x) = 2x+1 then fof (x) = _____;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
5	Question Image	
6	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
7	The trigonometric function are continuous whenever	A. They are defined B. their limit exist C. Their period is given D. All are incorrect
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	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}
10	sin h x = _____	
11	If f(x) = $-x^2$then f(-2) is	A. -2 B. 2 C. -4 D. 4
12	Question Image	A. (1,7/3) B. (1, 7/5) C. (1, 11/7) D. (1, 3/5)
13	If f(x) = x^2then f(-2) is	A. -2 B. 2 C. 4 D. -4
14	Question Image	A. -2 B. -1 C. 1 D. 2
15	f(x) = sin x + $\cos^2$x is	A. trigonometric function B. algebraic function C. exponential function

		D. logarithmic function
16	Question Image	A. -1 B. 1 C. 2 D. -2
17	The behavior of trigonometric function is called	A. Continuity B. Discontinuity C. Periodicity D. Smoothness
18	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
19	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
20	If $f(x) = x^2$ then f(0) is	A. 0 B. 1 C. 2 D. none of these