ECAT Mathematics Chapter 17 Functions and Limits

Sr	Questions	Answers Choice
1	Question Image	
2	A function of the form p(x)/Q(x) is called:	A. Rational function B. Logarithmic function C. Exponential function D. Hyperbolic function
3	Question Image	A. 2 C. -2 D. none of these
4	In common logarithm the base is	A. 1 B. 0 C. 10 D. e
5	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
6	The function f : x→ y defined as f (x) =α∀x∈ X,α∈ y is called	A. Constant function B. Polynomial function C. Identity function D. Linear function
7	Question Image	A. 0 B. 1 D. -1
8	The set of points {(x,y)|y = f(x), ∀x∈ } is called	A. Relation B. Graph of f C. Function D. All are correct
9	If f(x) = x^3- $2x^2$+ 4x -1 then f(2) is	A. 7 B. -16 C. 16 D. -9
10	If f(x) = x^3- $2x^2$+ 4x -1 then f(0) is	A. 0 B. 1 C. -1 D. none of these
11	Question Image	
12	If f(α) = b2 and g (c) =d where c=b2 then (gof)(a) is	A. α B. c C. b D. d
13	A function from X to Y is written as	B. f : X to Y D. f : Y to Y
14	Question Image	A. range of f B. domain of f C. both (a) and (b) D. none of these
15	Question Image	
16	If f (x) = 2x+1 then fof (x) = _____ ;	A. 4x+3 B. 2x +3 C. 4x +1 D. None of these
17	f(x) = ax + b will be an identity function if	A. a = 1 , b = 1 B. a = 1 , b = 0
18	Question Image	A. images B. pre-images C. constants D. none of these

19	Which of the following function form 1 to itself are bi-jective	A. $F(x) = x + 3$ B. $F(x) = x^5$ C. $F(x) = 3x + 2$ D. $F(x) = x^2 + x$
20	If x is an image of y under the function f. This can be written as	A. $y = f(x)$ B. $f(x) = 0$ C. $x = f(y)$ D. $f(y) = 0$