ECAT Mathematics Chapter 18 Basic Concepts & Definitions

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. zero at x B. differentiable at x C. continuous at x D. none of these
3	Question Image	A. 1 B. 0 C. cx D. c
4	Question Image	A. x²+ 2 B. 3x + 2 C. 3x²+ 5 D. 3x²+ 2
5	Question Image	
6	Question Image	
7	Question Image	
8	If $f(x) = c$ then f^1 (x0 equals:	A. 1 B. 0 C. cx D. c
9	Differentiation of sin x w.r.t. cot x is:	A. -sin² x sec x B. -cos x sin² x C. -cos² x tan x D. -sin² x
10	if $x \in D_f$ and $f^1(x)$ exists, then f is said to be	A. zero at x B. Differentiable at x C. Continuous at x D. None of these
11	If $x^2 + y^2 = 1$, then dy/dx	A. y/x B. -x/y C. 1/x D. None of these
12	Question Image	
13	Question Image	A. 2x B. x/2 C. 2x³ D. x³/2
14	Question Image	
15	Question Image	A. 8 B. 1/8 C. 1/3 D. 2/3
16	Question Image	
17	Question Image	
18	Question Image	
19	Question Image	A. mx B. x/m C. mx^{m-1} D. xm^{m-1}
20	If $f(x) = x^5 + x^3 + x$ the value of $f^1(1)$ is:	A. 0 B. 8 C. 5 D. 9