ECAT Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	∫Sec^2 (ax + b) dx is equal to:	A. tan² (ax + b) B. 1/a tan² (ax + b) C. 1/atan (ax +b) D. tan (ax + b)
2	Question Image	
3	Question Image	A. a sin(ax + b) + c B. - a sin(ax + b) + c
4	Question Image	
5	Question Image	
6	Question Image	B. tan 3x + c C. cot 3x + c D. - cot 3x + c
7	Question Image	
8	Question Image	
9	Question Image	A. cos 3x + c B. - cos 3x + c
10	Question Image	B. x⁻²+ c D. not possible
11	Question Image	A. 1 + tan²x + c B. tan x + c C. -tan x + c D. cot x + c
12	Question Image	
13	Question Image	
14	The general solution of the differential equation x dy / dx = 1 + y is:	A. 2 B. 1 C. 3 D. None
15	Question Image	A. Always negative B. Zero C. Always positive D. Infinity
16	Question Image	A. A variable B. A constant C. 0 D. None of these
17	Question Image	
18	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
19	An equation in which at least one term contains dy/dx, d^2 y /dx^{2}etc, is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation
20	Te order of the differential equation of all conics whose axes coincide with the axes of co-ordinates is	A. 2 B. 3 C. 4 D. 1