ECAT (Pre-Eng) Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	Question Image	A. 1 + tan²x + c B. tan x + c C. -tan x + c D. cot x + c
2	Question Image	A. cot x + c B. tan x + c C. -cot x + c D. -tan x + c
3	The solution of differential equation:	A. dy/dx+y/x = x²is : B. 4xy = x⁴+ c C. 4x = x⁴= c D. 4 y = x⁴+ c E. 4x=4x³ + c
4	Question Image	
5	Question Image	
6	Question Image	
7	Question Image	B. ln(x²- x + 1) ⁴+ c
8	Question Image	C. x²+ 2x + c D. (x²+ 2x -1) ⁴+ c
9	Question Image	A. 0 B. 1 C. 2 D. 4
10	Question Image	B. tan 3x + c C. cot 3x + c D. - cot 3x + c
11	Question Image	
12	Question Image	
13	The differential equation of all st. lines which are at a constant distance to form the origin is	
14	Question Image	
15	Question Image	
16	Question Image	A. 5x^{4 + c} B. 1/6 x⁶+ c C. 5x²+ c D. 1/5 x⁶+ c
17	The integral of $3x^5dx$ is:	A. 15 x⁴ B. x⁶/2 C. 1/6x⁵ D. x⁵/ln3
18	f(x)g(x)- ∫g(x) f′(x) dx is equal to	A. ∫f(x)g′(x)dx B. ∫f′(x)g(x)dx C. ∫f′(x)g(x)′dx D. ∫f(x)g(x)dx
19	Which of the following integrals can be evaluated	
20	Question Image	A. a cos(ax + b) + c B. - a cos(ax + b) + c