ECAT Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	A. π B. π/6 C. -π/2 D. 2π
3	Question Image	
4	The differential equation of all st. lines which are at a constant distance to form the origin is	
5	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
6	Question Image	B. ln(x²- x + 1) ⁴+ c
7	Question Image	
8	Question Image	C. x²+ 2x + c D. (x²+ 2x -1) ⁴+ c
9	Question Image	
10	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
11	Question Image	A. 6x - 2 + c B. x³- x²+ x + c C. 6x - x²+ c D. 6x³- x²+ c
12	Question Image	
13	∫x/Sin^2 x dx is equal to:	A. x cot x + ln|sinx | B. -x cot x - ln|sinx | C. x cot x - ln|sinx | D. x. tan x- ln|secx |
14	Question Image	
15	Question Image	
16	Question Image	B. a f(x) + c C. f(x) + a

17	Question Image	
18	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
19	Question Image	B. a^xln a + c C. a^x+ c D. x a^x+ c
20	Which of the following integrals can be evaluated	