

Mathematics ECAT Pre Engineering Chapter 19 Integration Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	The general solution of the differential equation x dy / dx = 1 + y is:	A. 2 B. 1 C. 3 D. None
3	Question Image	A. 1 + tan ² x + c B. tan x + c Ctan x + c D. cot x + c
4	Question Image	
5	Question Image	B. sin 2x + c Csin 2x + c
6	The area bounded by $y = x(x^2 - 4)$ and below x - axis is	A. 4 B. 0 C4 D. 8
7	Te order of the differential equation of all conics whose axes coincide with the axes of coordinates is	A. 2 B. 3 C. 4 D. 1
8	Question Image	C. x ² + 2x + c D. (x ² + 2x -1) ⁴ + c
9	Question Image	
10	Question Image	
11	Question Image	A. $Y = -x \log x - x + c$ B. $Y = x \log x + x$ C. $Y = x \log x - x + c$ D. None of these
12	The area between the x-axis the curve y =4x-x2 is :	A. 32/2 B. 15 C. 18 D. 21
13	$\int f(x)$ is known as:	A. Definite itegral B. Indefinite integral C. Fixed integral D. Multiple integral
14	Question Image	A. cos x + c Bsin x + c Ccos x + c D. sin x + c
15	Question Image	A. A variable B. A constant C. 0 D. None of these
16	Question Image	
17	Question Image	A. y + 1 = Ae ^x B. y + 1 = Axe ^x C. xe ^x = C D. y + xe ^x = C
18	Question Image	
19	If the lower limit of an integral is a constant and the upper limit is a variable, then the integral is a	A. Constant function B. Variable value C. Function of upper limit D. All