

Mathematics ECAT Pre Engineering Chapter 19 Integration Online Test

Sr	Questions	Answers Choice
1	The differential equation representing the family of curves $y = A \cos(x + B)$, where A, B are parameters, is	
2	The area under the curve $y = 1/x^2$ between $x = 1$ and $x = 4$ is:	A25 B. 0.75 C0.35 D10
3	The general solution of the differential equation $x dy / dx = 1 + y$ is:	A. 2 B. 1 C. 3 D. None
4	Question Image	D. none of these
5	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
6	∫f(x) is known as:	A. Definite itegral B. Indefinite integral C. Fixed integral D. Multiple integral
7	Question Image	
8	∫Sec ² (ax + b) dx is equal to:	A. tan ² (ax + b) B. 1/a tan ² (ax + b) C. 1/atan (ax +b) D. tan (ax + b)
9	An equation in which at least one term contains dy/dx , d^2y/dx^2etc , is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation
10	Question Image	A. cosec x + c Bcosec x + c Csec x + c D. sec x + c
11	Question Image	C. In f(x) + c D. f(x) - c
12	Question Image	
13	Question Image	
14	Question Image	
15	Question Image	A. cosec x + c Bcosec x + c Csec x + c D. sec x + c
16	Question Image	
17	Question Image	B. a ^x ln a + c C. a ^x + c D. x a ^x + c
18	Question Image	
19	Question Image	A. a cosec(ax + b) + c B a cosec(ax + b) + c
20	Question Image	