

ECAT Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
2	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
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. $a f(x) + c$ C. $f(x) + a$
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $a \sin(ax + b) + c$ B. $-a \sin(ax + b) + c$
7	The area under the curve $y = 1/x^2$ between $x = 1$ and $x = 4$ is:	A. -25 B. 0.75 C. -0.35 D. -10
8	The differential equation representing the family of curves $y = A \cos (x + B)$, where A, B are parameters, is	
9	Which of the following integrals can be evaluated	
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $-\cot 4x + c$ B. $\cot 4x + c$ C. $\tan 4x + c$ D. $-\tan 4x + c$
12	Which of the following integrals can be evaluated	
13	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
18	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $(x^3 - 3x^2)^8 + c$ D. $3x^2 - 6x + c$
19	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
20	$\int \sec^2 (ax + b) dx$ is equal to:	A. $\tan^2 (ax + b)$ B. $1/a \tan^2 (ax + b)$ C. $1/a \tan (ax + b)$ D. $\tan (ax + b)$