

## ECAT (Pre-Eng) Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
2	The 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
3	Question Image	
4	Question Image	A. $4(x^3 - 3x^2) + c$ B. $3x^2 - 6x + c$
5	Question Image	
6	Question Image	
7	Question Image	A. Always negative B. Zero C. Always positive D. Infinity
8	Question Image	A. $\cos 3x + c$ B. $-\cos 3x + c$
9	Question Image	B. $a f(x) + c$ C. $f(x) + a$
10	Question Image	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $-\sec x + c$ D. $\sec x + c$
11	$\int f(x)g(x) - \int g(x)f'(x) dx$ is equal to	A. $\int f(x)g'(x)dx$ B. $\int f'(x)g(x)dx$ C. $\int f'(x)g(x)'dx$ D. $\int f(x)g(x)dx$
12	Question Image	A. 1 B. 2 C. 3 D. 4
13	Question Image	
14	Question Image	
15	$\int x \sin x dx$ is equal to:	A. $\sin x/x + \cos x$ B. $\sin x - \cos x/x$ C. $x \cos x + \sin x$ D. $-x \cos x + \sin x$
16	Question Image	A. $2x - 3x + c$ C. $x^2 - 3x + c$
17	Question Image	
18	$\sqrt[3]{8.6}$ is approximately equal to	A. 2.488 B. 2.48 C. 2.0488 D. 2.05
19	Question Image	
20	Question Image	