

## ECAT Mathematics Chapter 19 Integration Online Test

Sr	Questions	Answers Choice
1	Question Image	A. $2x + 3$ B. $x^2 + 3 + c$
2	Question Image	
3	Question Image	D. none of these
4	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
5	The set of all antiderivatives of $f(x) = \int f(x)dx$ is the	A. Definite integral B. Indefinite integral C. Integral D. Area
6	The function $\phi(x)$ is an anti derivative of function $f(x)$ , $x \in D_f$ if	A. $\phi'(x) = f(x)dx$ B. $\phi(x) = f(x)dx$ C. $\phi'(x) = f(x)$ D. $\phi(x) = f'(x)dx$
7	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
8	The approximate percentage increase in the volume of a cube if the length of its each edge changes from 5 to 5.02 is	A. 1.2% B. 1.5% C. 0.16% D. 100.16%
9	$\sqrt[3]{8.6}$ is approximately equal to	A. 2.488 B. 2.48 C. 2.0488 D. 2.05
10	The approximate increase in the area of a circular disc if its diameter increased from 44cm to 44.4cm is	A. 0.4cm B. $8.8\pi$ cm C. $17.6\pi$ cm D. $35.2\pi$ cm
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	The area bounded by $y = x(x^2 - 4)$ and below x - axis is	A. 4 B. 0 C. -4 D. 8
13	Archimedes approximate the function by horizontal function and the area under f by the sum of small	A. Parallelograms B. Squares C. Rectangles D. Polygons