

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

Sr	Questions	Answers Choice
1	Question Image	B. $\ln(x^2 - x + 1) - x^4 + c$
2	The process of finding a function whose derivative is given is called a	A. Differentiation B. Integration C. Differential D. None
3	Question Image	
4	Question Image	A. $a \operatorname{cosec}(ax + b) + c$ B. $-a \operatorname{cosec}(ax + b) + c$
5	Question Image	
6	Question Image	
7	Question Image	
8	Question Image	B. $a f(x) + c$ C. $f(x) + a$
9	Question Image	A. $1 + \tan^2 x + c$ B. $\tan x + c$ C. $-\tan x + c$ D. $\cot x + c$
10	Question Image	
11	Question Image	D. none of these
12	Question Image	
13	$\int f(x)$ is known as:	A. Definite itegral B. Indefinite integral C. Fixed integral D. Multiple integral
14	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
15	Question Image	C. $x^2 + 2x + c$ D. $(x^2 + 2x - 1)^4 + c$
16	Question Image	A. <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);'>π</span> B. <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);'>π/6</span> C. <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);'>π/2</span> D. <span style='color: rgb(34, 34, 34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);'>π</span>
17	The differential equations of all conis whose axes coincide with the co-ordinate axis is	

18 The differential equation of all st. lines which are at a constant distance to form the origin is

- A.  $6x - 2 + c$
- B.  $x^3 - x^2 + x + c$
- C.  $6x - x^2 + c$
- D.  $6x^3 - x^2 + c$

19 Question Image

- A.  $\operatorname{cosec} x + c$
- B.  $-\operatorname{cosec} x + c$
- C.  $-\sec x + c$
- D.  $\sec x + c$

20 Question Image