

## ICS Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. $f(x)$ B. $\ln  f(x) $ C. $f'(x)$ D. $\ln  f'(x) $
2	Question Image	A. $a \operatorname{cosec}(ax + b)$ D. $\cot(ax + b)$
3	Question Image	
4	Question Image	
5	Question Image	
6	Question Image	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $\cot x + c$ D. $-\cot x + c$
7	Question Image	A. $\cot x$ B. $-\cot x$ C. $\operatorname{cosec} x \cot x$ D. $-\operatorname{cosec} x \cot x$
8	Question Image	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x + c$ D. $-\sec x + c$
9	Question Image	A. $\cos x + c$ B. $-\cos x + c$ C. $\sin x + c$ D. $-\sin x + c$
10	Question Image	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x \tan x + c$ D. $-\sec x \tan x + c$
11	Question Image	A. Integral B. Indefinite integral C. Differential D. Definite integral
12	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
13	An integral of $3x^2$ is:	A. $x^{\sup>3</sup>} + c$ B. 3 C. $6x$ D. $x^{\sup>2</sup>} + c$
14	Question Image	A. Integration B. Integration w.r.t.x C. Differentiation D. Differentiation w.r.t.x
15	Question Image	A. Derivative B. Differential C. Integral D. None of these
16	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
17	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. Integration C. Differential D. None of these

18	The term $dy$ (or $df$ ) = $f'(x) dx$ is called the _____ of the dependent variable $y$ .	A. Differentiation B. Integration C. Differential D. None of these
19	If $y = \sin x$ then $dy =$	A. $\cos y dx$ B. $\cos x$ C. $\cos x dx$ D. $\cos x dy$
20	If $y = x^2 + 1$ _____ $x$ changes from 3 to 3.02 then $dy =$ _____	A. 0.1204 B. .12 C. .02 D. 1.2