

## ICS Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \cosec x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \cosec x + \cot x  + c$
2	If $y = \sin x$ then $dy =$	A. $\cos y \, dx$ B. $\cos x$ C. $\cos x \, dx$ D. $\cos x \, dy$
3	Question Image	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \sin x + c$
4	Question Image	A. domain B. range C. lower limit D. upper limit
5	If the graph of $f$ is entirely below the $x$ -axis, then the definite integral is:	A. Positive B. Positive or negative C. Negative D. Positive and negative
6	Question Image	A. $\cot x$ B. $-\cot x$ C. $\cosec x \cot x$ D. $-\cosec x \cot x$
7	Question Image	A. Integral B. Indefinite integral C. Differential D. Definite integral
8	Area between $x$ -axis and the curve:	A. 32 B. 16
9	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
10	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
11	Question Image	A. Derivative B. Differential C. Integral D. None of these
12	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
13	Question Image	A. 36 B. 42 C. 48 D. 12
14	Question Image	A. integration by parts
15	Question Image	B. definite integral C. Differentiation D. None of these
16	Question Image	A. a cosec $(ax + b)$ D. cot $(ax + b)$
17	Question Image	

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18      Question Image

A.  $\tan x + c$   
B.  $-\tan x + c$   
C.  $\sec x + c$   
D.  $-\sec x + c$

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19      An integral of  $3x^2$  is:

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

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20      Question Image

A. Integration  
B. Integrand  
C. Constant of integration  
D. None of these

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