

## FA Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. domain B. range C. lower limit D. upper limit
2	Question Image	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \operatorname{cosec} x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \operatorname{cosec} x + \cot x  + c$
3	Area between x-axis and the curve:	A. 32 D. 16
4	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
5	Question Image	A. $\operatorname{cosec} x + c$ B. $-\operatorname{cosec} x + c$ C. $\cot x + c$ D. $-\cot x + c$
6	Question Image	
7	Question Image	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \sin x + c$
8	Question Image	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
9	Question Image	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \operatorname{cosec} x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \operatorname{cosec} x + \cot x  + c$
10	Question Image	A. $\cos x + c$ B. $-\cos x + c$ C. $\sin x + c$ D. $-\sin x + c$
11	If the lower limit is a constant and the upper limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
12	Question Image	A. $f(x)$ B. $\ln  f(x) $ C. $f'(x)$ D. $\ln  f'(x) $
13	Question Image	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x \tan x + c$ D. $-\sec x \tan x + c$
14	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
15	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
16	Question Image	A. 36 B. 42 C. 48 D. 12

- 17  A. a cosec (ax + b)  
D. cot (ax + b)
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- 18 If  $y = x^2 + 1$  \_\_\_\_\_ x changes from 3 to 3.02 then  $dy =$  \_\_\_\_\_  
A. 0.1204  
B. .12  
C. .02  
D. 1.2
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- 19  A. 0  
B. 1  
C. 2  
D. 3
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- 20 If  $y = \sin x$  then  $dy =$   
A.  $\cos y \, dx$   
B.  $\cos x$   
C.  $\cos x \, dx$   
D.  $\cos x \, dy$