

## FA Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\cot x$ B. $-\cot x$ C. $\operatorname{cosec} x \cot x$ D. $-\operatorname{cosec} x \cot x$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. <b>Integrand</b> C. Constant of integration D. None of these
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration by parts B. <b>Definite integral</b> C. Differentiation D. None of these
4	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. <b>Integration</b> C. Differential D. None of these
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln  \sec x + \tan x  + c$ B. $\ln  \operatorname{cosec} x - \cot x  + c$ C. $\ln  \sec x - \tan x  + c$ D. $\ln  \operatorname{cosec} x + \cot x  + c$
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\ln  \sin x $ B. $-\ln  \sin x $ C. $\ln  \cos x $ D. $-\ln  \cos x $
7	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then $dy =$ _____	A. 0.1204 B. <b>.12</b> C. .02 D. 1.2
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. Integrand C. <b>Constant of integration</b> D. None of these
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{\sup>ax}$ B. $f(x)$ C. $e^{\sup>ax} f(x)$ D. $e^{\sup>ax + f(x)}$
10	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. <b>Positive</b> B. Positive or negative C. Negative D. Positive and negative
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. domain B. range C. lower limit D. <b>upper limit</b>
12	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\operatorname{cosec} x + c$ B. <b><math>-\operatorname{cosec} x + c</math></b> C. $\cot x + c$ D. $-\cot x + c$
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \sin x + c$
14	If $y = \sin x$ then $dy =$	A. $\cos y \, dx$ B. $\cos x$ C. <b><math>\cos x \, dx</math></b> D. $\cos x \, dy$
15	If the graph of f is entirely below the x-axis, then the definite integral is:	A. Positive B. <b>Positive or negative</b> C. Negative D. Positive and negative

16	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
17	Question Image	A. integration by parts B. definite integral C. Differentation D. None of these
18	Question Image	
19	If the upper limit is a constant and the lower limit is a variable, then the integral is a function of:	A. x B. y C. lower limit D. upper limit
20	An integral of $3x^2$ is:	A. $x^{3+c}$ B. 3 C. $6x$ D. $x^{2+c}$