

FSC Part 2 Mathematics Chapter 3 Online Test

Sr	Questions	Answers Choice
1	Question Image <input type="text"/>	A. e^{ax} B. $f(x)$ C. $e^{ax}f(x)$ D. $e^{ax + f(x)}$
2	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
3	Question Image <input type="text"/>	A. $\tan x + c$ B. $-\tan x + c$ C. $\sec x + c$ D. $-\sec x + c$
4	Question Image <input type="text"/>	A. 0 B. 1 C. 2 D. 3
5	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
6	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
7	Area between x -axis and the curve:	A. 32 D. 16
8	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then $dy =$ _____	A. 0.1204 B. .12 C. .02 D. 1.2
9	Question Image <input type="text"/>	A. Integral B. Indefinite integral C. Differential D. Definite integral
10	Question Image <input type="text"/>	A. domain B. range C. lower limit D. upper limit
11	Question Image <input type="text"/>	A. Integration by parts B. Definite integral C. Differentiation D. None of these
12	Question Image <input type="text"/>	A. Derivative B. Differential C. Integral D. None of these
13	Question Image <input type="text"/>	A. $e^{2x} \sin x + c$ B. $e^{2x} \cos x + c$ C. $-e^{2x} \sin x + c$ D. $-e^{2x} \cos x + c$
14	Question Image <input type="text"/>	A. $a \operatorname{cosec}(ax + b)$ D. $\cot(ax + b)$
15	Question Image <input type="text"/>	A. $e^{-x} \sin x + c$ B. $-e^{-x} \sin x + c$ C. $e^{-x} \cos x + c$ D. $-e^{-x} \sin x + c$
16	Question Image <input type="text"/>	A. Integration

- 17 B. Integrand
C. Constant of integration
D. None of these
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- 18 The general solution of differential equation of order n contains n arbitrary constants, which can be determined by ----- initial value conditions. A. 1
B. 0
C. 2
D. n
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- 19 A. integration by parts
B. definite integral
C. Differentiation
D. None of these
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- 20 A. Integration
B. Integrand
C. Constant of integration
D. None of these
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