FSC Part 2 Mathematics Chapter 3 Online Test

Sr	Questions	Answers Choice
1	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
2	Question Image	A. cot x B. - cot x C. cosec x cot x D. -cosec x cot x
3	Question Image	A. Derivative B. Differential C. Integral D. None of these
4	If $y = x^2 + 1$ _____ x changes from 3 to 3.02 then dy = _____	A. 0.1204 B. .12 C. .02 D. 1.2
5	Question Image	A. domain B. range C. lower limit D. upper limit
6	Question Image	A. cosec x + c B. -cosec x + c C. cot x + c D. - cot x + c
7	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
8	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
9	Question Image	A. a cosec (ax + b) D. cot (ax + b)
10	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
11	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
12	Question Image	A. 0 B. 1 C. 2 D. 3
13	Question Image	A. e^{-x} sin x + c B. -e^{-x} sin x + c C. e^{-x}cosx + c D. -e^{-x}sin x + c
14	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
15	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
		A. cosy dx

16	If y = sin x then dy =	B. cos x C. cosx dx D. cos xdy
17	Question Image	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
18	Question Image	
19	Question Image	A. tan x + c B. -tan x + c C. sec x + c D. -sec x + c
20	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these