FSC Part 2 Mathematics Chapter 3 Online Test

Sr	Questions	Answers Choice
1	An integral of $3x^2$ is:	A. x³+c B. 3 C. 6x D. x^{2+c}
2	Question Image	A. domain B. range C. lower limit D. upper limit
3	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
4	Question Image	A. e^{ax} B. f(x) C. e^{ax}f(x) D. e^{ax + f(x)}
5	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
6	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
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	Question Image	A. Integration by parts B. Definite integral C. Differentiation D. None of these
9	Question Image	A. e^{2x} sin x + c B. e^{2x}cosx + c C. -e^{2x}sin x + c D. -e^{2x}cosx + c
10	Question Image	A. a cosec (ax + b) D. cot (ax + b)
11	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
12	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
13	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
14	Question Image	A. cos x + c B. - cos x + c C. sin x + c D. -sin x + c
15	If the graph of f is entirely above the x-axis, then the definite integral is _____:	A. Positive B. Positive or negative C. Negative D. Positive and negative
		A. 36

16	Question Image	B. 42 C. 48 D. 12
17	Question Image	A. 0 B. 1 C. 2 D. 4
18	Question Image	A. equal to each other B. not equal to each other C. nearly equal to each other D. None of these
19	Question Image	
20	Question Image	A. tan x + c B. - tan x + c C. sec x tan x + c D. - sec x tan x + c