FSC Part 2 Mathematics Chapter 3 Online Test

Sr	Questions	Answers Choice
1	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
2	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
3	Question Image	A. Integration B. Integrand C. Constant of integration D. None of these
4	Question Image	A. cos x + c B. - cos x + c C. sin x + c D. -sin x + c
5	Area between x-axis and the curve:	A. 32 D. 16
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	Question Image	A. 0 B. 1 C. 2 D. 3
8	Question Image	A. Integration by parts B. Definite integral C. Differentiation D. None of these
9	Question Image	A. Derivative B. Differential C. Integral D. None of these
10	Question Image	A. cot x B. - cot x C. cosec x cot x D. -cosec x cot x
11	Question Image	A. f(x) B. ln |f(x)| C. f'(x) D. ln |f'(x)|
12	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
13	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
14	An integral of $3x^2$ is:	A. x³+c B. 3 C. 6x D. x^{2+c}
15	Question Image	A. 36 B. 42 C. 48 D. 12
		A. e^{2x} sin x + c

16	Question Image	B. e^{2x}cosx + c C. -e^{2x}sin x + c D. -e^{2x}cosx + c
17	Question Image	
18	Question Image	A. equal to each other B. not equal to each C. nearly equal to each other D. none of these
19	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
20	Question Image	