

## ICS Part 2 Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	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. <span style="color: green;">n</span>
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. domain B. <span style="color: green;">range</span> C. lower limit D. upper limit
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Derivative B. Differential C. <span style="color: green;">Integral</span> D. None of these
4	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. <span style="color: green;">equal to each other</span> B. not equal to each other C. nearly equal to each other D. None of these
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. <span style="color: green;">tan x + c</span> B. - tan x + c C. sec x tan x + c D. - sec x tan x + c
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. <span style="color: green;">Integrand</span> C. Constant of integration D. None of these
8	The technique or method to find such a function whose derivative is given involves the inverse process of differentiation called:	A. Differentiation B. <span style="color: green;">Integration</span> C. Differential D. None of these
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. <span style="color: green;">ln  sin x </span> B. - ln  sin x  C. ln  cos x  D. -ln  cos x
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integration B. Integrand C. <span style="color: green;">Constant of integration</span> D. None of these
12	If the graph of $f$ is entirely above the $x$ -axis, then the definite integral is _____:	A. <span style="color: green;">Positive</span> B. Positive or negative C. Negative D. Positive and negative
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Integral B. <span style="color: green;">Indefinite integral</span> C. Differential D. Definite integral
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $e^{\sin x} + c$ B. $e^{\cos x} + c$ C. $e^{\cos x} + c$ D. $e^{\sin x} + c$
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. ln  sec x + tan x  + c B. <span style="color: green;">ln  cosec x - cot x  + c</span> C. ln  sec x - tan x  + c D. ln  cosec x + cot x  + c
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. cosec x + c B. <span style="color: green;">-cosec x + c</span> C. cot x + c D. - cot x + c

17	Question Image	A. a cosec (ax + b) D. cot (ax + b)
18	Question Image	A. $e^{2x} \sin x + c$ B. $e^{2x} \cos x + c$ C. $-e^{2x} \sin x + c$ D. $-e^{2x} \cos x + c$
19	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
20	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