

## FSC Part 2 Mathematics Chapter 2 Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
3	The small change in the value ofx, positive or negative is called the of x.	A. Increment B. Differential C. Derivative D. none of these
4	Question Image	A. sinh x B. cosh x Csinh x Dcosh x
5	The derivative of x with respect to y is given by:	
6	Question Image	Acosec x cotx B. cosec <sup>2</sup> x Ccosec <sup>2</sup> x D. cosec x cotx
7	Question Image	
8	Question Image	A cosec <sup>2</sup> x B. cosec <sup>2</sup> x C cosec x cot x D. cosec x cot x
9	Question Image	A. x = a B. x = 2 C. x = 0 D. None
10	Question Image	A. x = a B. for all x D. x = 0
11	Question Image	A. sech x tanh x Bsech <sup>2</sup> x Csech x tanh x D. sech <sup>2</sup> x
12	If s is the distance traveled by a body at time t, the velocity is given by the expression:	
13	Question Image	A. 1 (1 - 4) B. 2x - 3 C. x - 3 D. x <sup>3</sup> - 3x
14	Notation Df(x) for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
15	Question Image	A. tan x B. cot x C tan x D cot x
16	Question Image	
17	Question Image	A. x with respect to y B. y with respect to y C. y with respect to x D. x with respect to x
18	Question Image	
19	Question Image	A. sin x B. cos x Csin x

		Dcos x
20	The function $f(x) = 3x^2$ has minimum value at :	A. x = 3 B. x = 2 C. x = 1 D. x = 0
21	Question Image	A. c B. 0 C. 1 Dc
22	Question Image	A. 2cosh x B. 2sinh x C. 2sinh (2x) D2sinh (2x)
23	If $y = f(u)$ and $u = F(x)$ , then:	
24	Question Image	A. Lagrange B. Newtown C. Leibniz D. Cauchy
25	For a square of side x units, the rate of change of area with respect to the side is given by:	A. x B. x <sup>2</sup> C. 2x D. 2
26	Question Image	
27	Question Image	A. sech x tanh x Bsech x tanhx C. sech <sup>2</sup> x Dsech <sup>2</sup> x
28	The instantaneous rate of change of y with respect to x is given by:	
29	Question Image	A. sec x tan x B sec <sup>2</sup> x Csec x tan x D. sec <sup>2</sup> x
30	Question Image	
31	Question Image	A. sec x tan x B. sec <sup>2</sup> x Csec x tan x Dsec <sup>2</sup> x
32	If $f(x) = \cos x$ then $f'(0)$ is equal to:	A. 0 B1 C. 1
33	Question Image	
34	Question Image	A. sinh x B. cosh x Csinh x Dcosh x
35	Question Image	
36	Question Image	A. x = a B. x = 2 C. x = 0 D. None
37	Question Image	A. sin x Bcos x Csin x D. cos x
38	Question Image	A. 0 B. 1 C1 D. 2
39	Sir Isaac Newton was a(an) mathematician.	A. German B. French C. Swiss D. English
40	Question Image	
41	Question Image	

12	Question Image	A. cosech x coth x Bcosech <sup>2</sup> x Ccosech x coth x D. cosech <sup>2</sup> x
13	Question Image	
14	Question Image	A. 5 sin x B. cosh (5x) C. 5 cosh (5x) D5 cosh (5x)
15	Gottfried Whilhelm Leibniz was a (an) mathematician:	A. German B. English C. Swiss D. French
16	Question Image	