FA Part 2 Mathematics Chapter 2 Test Online

Sr	Questions	Answers Choice
1	If s is the distance traveled by a body at time t, the velocity is given by the expression:	
2	Question Image	
3	Question Image	A. sech x tanh x B. -sech²x C. -sech x tanh x D. sech²x
4	The function $f(x) = 3x^2$ has minimum value at :	A. x = 3 B. x = 2 C. x = 1 D. x = 0
5	Question Image	A. x = a B. x = 2 C. x = 0 D. None
6	Question Image	
7	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
8	If y = f(u) and u = F(x), then:	
9	Notation Df(x) for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
10	Question Image	A. sin x B. -cos x C. -sin x D. cos x
11	Question Image	A. Lagrange B. Newtown C. Leibniz D. Cauchy
12	Question Image	A. sec x tan x B. - sec²x C. -sec x tan x D. sec²x
13	Question Image	
14	Question Image	A. sech x tanh x B. -sech x tanhx C. sech² x D. -sech²x
15	Question Image	
16	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
17	Question Image	
18	Question Image	
19	Question Image	A. 0 B. 1 C. -1 D. 2
20	Question Image	A. 1 (1 - 4) B. 2x - 3 C. x - 3

		D. x³ - 3x
21	For a square of side x units, the rate of change of area with respect to the side is given by:	A. x B. x² C. 2x D. 2
22	Question Image	
23	Question Image	A. 5 sin x B. cosh (5x) C. 5 cosh (5x) D. -5 cosh (5x)
24	The instantaneous rate of change of y with respect to x is given by:	
25	Question Image	A. tan x B. cot x C. - tan x D. - cot x
26	Question Image	A. cosech x coth x B. -cosech²x C. -cosech x coth x D. cosech²x
27	Question Image	A. x = a B. for all x D. x = 0
28	Question Image	
29	If f(x) = cos x then f'(0) is equal to:	A. 0 B. -1 C. 1
30	Question Image	
31	Question Image	A. sin x B. cos x C. -sin x D. -cos x
32	Question Image	
33	Question Image	A. 2cosh x B. 2sinh x C. 2sinh (2x) D. -2sinh (2x)
34	Sir Isaac Newton was a(an) --------- mathematician.	A. German B. French C. Swiss D. English
35	Question Image	A. sinh x B. cosh x C. -sinh x D. -cosh x
36	Question Image	
37	The derivative of x with respect to y is given by:	
38	Question Image	A. -cosec x cotx B. cosec² x C. -cosec²x D. cosec x cotx
39	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
40	Question Image	A. sec x tan x B. sec²x C. -sec x tan x D. -sec²x
41	Question Image	A. - cosec² x B. cosec²x C. - cosec x cot x D. cosec x cot x
42	Question Image	

43	Question Image	A. c B. 0 C. 1 D. -c
44	Question Image	A. sinh x B. cosh x C. -sinh x D. -cosh x
45	Question Image	A. x = a B. x = 2 C. x = 0 D. None
46	Gottfried Whilhelm Leibniz was a (an) ----- mathematician:	A. German B. English C. Swiss D. French