

## FA Part 2 Mathematics Chapter 2 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. cosech x coth x B. -cosech <sup>2</sup> x C. -cosech x coth x D. cosech <sup>2</sup> x
2	Question Image	A. 5 sin x B. cosh (5x) C. 5 cosh (5x) D. -5 cosh (5x)
3	Question Image	A. sin x B. -cos x C. -sin x D. cos x
4	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
5	Question Image	A. 2cosh x B. 2sinh x C. 2sinh (2x) D. -2sinh (2x)
6	The small change in the value of $f(x)$ , positive or negative is called the ----- of $x$ .	A. Increment B. Differential C. Derivative D. none of these
7	If $y = f(u)$ and $u = F(x)$ , then:	
8	Question Image	
9	Question Image	
10	Question Image	A. 0 B. 1 C. -1 D. 2
11	The instantaneous rate of change of $y$ with respect to $x$ is given by:	
12	Gottfried Wilhelm Leibniz was a (an) ----- mathematician:	A. German B. English C. Swiss D. French
13	Question Image	A. sec x tan x B. - sec <sup>2</sup> x C. -sec x tan x D. sec <sup>2</sup> x
14	Question Image	
15	The derivative of $x$ with respect to $y$ is given by:	
16	Question Image	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
17	Question Image	A. sech x tanh x B. -sech x tanh x C. sech <sup>2</sup> x D. -sech <sup>2</sup> x
18	Question Image	A. c B. 0 C. 1 D. -c
		A. $x = 3$ B. $x = -3$

19 The function  $f(x) = 3x^2$  has minimum value at :

- B.  $x = 2$
- C.  $x = 1$
- D.  $x = 0$

20 Question Image

- A.  $1(1 - 4)$
- B.  $2x - 3$
- C.  $x - 3$
- D.  $x^3 - 3x$