

## FA Part 2 Mathematics Chapter 2 Test Online

Sr	Questions	Answers Choice
1	Question Image	A. $x = a$ B. $x = 2$ C. $x = 0$ D. None
2	Question Image	A. $-\operatorname{cosec} x \cot x$ B. $\operatorname{cosec}^2 x$ C. $-\operatorname{cosec}^2 x$ D. $\operatorname{cosec} x \cot x$
3	The derivative of $x$ with respect to $y$ is given by:	
4	Notation $Df(x)$ for derivative was used by:	A. Cauchy B. Newton C. Leibniz D. Lagrange
5	If $y = f(u)$ and $u = F(x)$ , then:	
6	For a square of side $x$ units, the rate of change of area with respect to the side is given by:	A. $x$ B. $x^2$ C. $2x$ D. 2
7	If $s$ is the distance traveled by a body at time $t$ , the velocity is given by the expression:	
8	The Maclaurin series expansion is valid only if it is:	A. Convergent B. Divergent C. Increasing D. Decreasing
9	Question Image	
10	Question Image	A. $\operatorname{cosech} x \coth x$ B. $-\operatorname{cosech}^2 x$ C. $-\operatorname{cosech} x \coth x$ D. $\operatorname{cosech}^2 x$
11	Question Image	A. $\sec x \tan x$ B. $\sec^2 x$ C. $-\sec x \tan x$ D. $-\sec^2 x$
12	Question Image	
13	Question Image	A. $2\cosh x$ B. $2\sinh x$ C. $2\sinh(2x)$ D. $-2\sinh(2x)$
14	Question Image	A. $x = a$ B. for all $x$ D. $x = 0$
15	Question Image	A. $\operatorname{sech} x \tanh x$ B. $-\operatorname{sech} x \tanh x$ C. $\operatorname{sech}^2 x$ D. $-\operatorname{sech}^2 x$
16	If $f(x) = \cos x$ then $f'(0)$ is equal to:	A. 0 B. -1 C. 1
17	Question Image	
18	Question Image	A. $\sinh x$ B. $\cosh x$ C. $-\sinh x$ D. $-\cosh x$
19	Question Image	
20	The instantaneous rate of change of $y$ with respect to $x$ is given by:	

