MTH-101 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	If there is some function F such that d/dx[F(x)]=f(x) then antiderivatives of f(x) are F(x)+C .What does C represent?	A. Polynomial B. Constant C. Dependent variable D. Independent variable
2	If there is some function F such that d/dx[F(x)]=f(x) then any of the function of the form F(x)+C is _____ of f(x)	A. Derivative B. Antiderivative C. Slope D. Maximum value
3	The mean value of theorem states that " Let function f can be differentiable on (a,b) and continuous on [a,b] then there is no exist at least one point c in (a,b) where _____	A. f'(c)=f(b)-f(a)/b-a B. f(c)=f(b)-f(a)/b-a C. f(c)=f(a)-f(b)/b-a
4	If a function has an extreme value (either a maximum or a minimum) on an open interval (a,b) then the extreme value occurs at ____ of f	A. First point B. Mid point C. Critical Point D. End Point
5	$\log_b ac$=_____	A. log_ba + log_bc B. log_ba - log_bc C. log_ba/log_bc D. log_ba * log_bc
6	Let $y=(x^3+2x)^{37}$ Let Which of the following is correct?	A. dy/dx=(37)(x³+2x)³⁶ B. dy/dx=(111x²)(x³+2x)³⁶ C. dy/dx=(111x²+74)(x³+2x)³⁶ D.
7	The tan(x) is discontinuous at the point where	A. Cos(x)=0 B. Sin(x)=0 C. Tan(x)=0
8	Polynomials are always _____ function	A. Continuous B. Discontinuous C. Not Sure
9	The graph of the equation $y=x^2-4x+5$ will represent	A. Parabola B. Straight Line C. Ellipse
10	Which operation can not be applied on the function?	A. Subtraction B. Cross Product C. Addition D. Composition