MTH-101 Final Term Exams Preparation Virtual University

Sr	Questions	Answers Choice
1	If f(x)=3x^{8}+2x+1 then f'x)	A. 3x⁷+2 B. 24x⁷+2 C. 3x⁷+23
2	A line is called a tangent line to the circle if it meets the circle at precisely.....	A. one point B. two point C. infinite points
3	Suppose that f and g are differentiable function of f x then d/dx(f)(g)=	A. [f']\[g]-[f]\[g']/g² B. [f']\[g'] C. [f']\[g] + [f]\[g']
4	lim$_{x\to\infty}$(-2x)=	A. -2 B. 0 C. 2 D. Does not exist
5	Tan(x) is continuous every where except at points	A. +- kπ/2 where k=(1,3,5.....) B. +- kπ/2 where k=(2,4,6.....) C. +- kπ/2 where k=(1,2,3,4,5,6.....)
6	_____ is the special case of Taylor's Theorem	A. Roll's theorem B. Picard Method C. Integration
7	What is the length of each subinterval,if the interval [1,3]is divided into n sub interval of equal length?	A. 1/n B. 2/n C. 3/n
8	Which operation could not be applied on the function?	A. Cross Product B. Sum C. Division
9	If f(x)=e^{-x}at x=0 be the taylor series ,then which of the following is also true?	A. Arithmetic Series B. Maclaurin Series C. Geometric Series D. Harmonic Series
10	A function f is called antiderivative of a function on a given interval if _____ =f(x),for all x in that interval	A. F'(x) B. F(x) C. f(x) D. f''(x)