STA-301 Quiz OnlineTest

Sr	Questions	Answers Choice
1	d/dx[cosec x]	A. 1/1+cos²x B. -cos x/1-cos²x C. 1/1-cos²x
2	The equation of the line of the form $y-y_1=m(x-x_1)$ is known as	A. Point Slope form B. Two points form C. Intercept form D. Slop intersect form
3	The graph of the equation $y=x^2-4x+5$ will represent	A. Parabola B. Single line C. Two straight line D. Ellipse
4	If 2y-y=-3 then dy/dx ?	A. 2 B. -2 C. 0 D. -3
5	Lim $x \to a$ f(x)=____ where f(x)=k?	A. k+2 B. K+1 C. k
6	Chain rule is a rule for differentiating _____ of functions	A. Product B. Sum C. Composition D. Difference
7	The graph $x=y^2$is symmetric about _____ axis?	A. X-axis B. Y-axis C. Origin
8	Suppose f and g are differentiable function of x then d/dx[f/g]	A. [g][f'] - [f][g']/g² B. [g'][f] - [f'][g]/g² C. [g'][f] - [f'][g]/f²
9	The set {x:a<=x<=b} can be written in the form of interval ?	A. (a,b) B. (a.b) C. [a,b]
10	π is a _____ number	A. rational B. irrational C. natural D. integer
11	If $f(x)=3x^8+2x+1$ then f'x)	A. 3x⁷+2 B. 24x⁷+2 C. 3x⁷+23
12	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
13	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']
14	$\lim_{x \to \infty}(-2x)$=	A. -2 B. 0 C. 2 D. Does not exist
15	Tan(x) is continuous every where except at points	A. +- kπ/2 where k=(1,3,5.....) B. +- k<span style="font-family: arial, sans-serif; font-size: small; color: rgb(84, 84,

		84); ">π/2 where k=(2,4,6.....) C. +- kπ/2 where k=(1,2,3,4,5,6.....)
16	_____ is the special case of Taylor's Theorem	A. Roll's theorem B. Picard Method C. Integration
17	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
18	Which operation could not be applied on the function?	A. Cross Product B. Sum C. Division
19	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
20	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)