STA-301 Quiz OnlineTest

Sr	Questions	Answers Choice
1	$\log_b ac$=_____	A. log_ba + log_bc B. log_ba - log_bc C. log_ba/log_bc D. log_ba * log_bc
2	_____ is the special case of Taylor's Theorem	A. Roll's theorem B. Picard Method C. Integration
3	Suppose that we apply newton method to approximate the real solution of the equation $x^3-2x^2-1=0$ if we start at $x_1=2$,then which of the following is value of x_2?	A. 6 B. 2.25 C. 0 D. 2
4	$\log_b 1/t$ =_____	A. log_bt B. 1-log_bt C. 1+log_bt D. -log_bt
5	The lim $x \to a$ f(x)=___ where f(x)=k The k is constant	A. K+1 B. K+2 C. k
6	If a function g is differentiable at a point x and function f is differentiable at a point g(x),then the __ is differentiable a point x.	A. Composition (fog) B. Quotient f/g C. product f.g D. Sum (f+g)
7	Consider two function $f(x)=x^3$and g(x)=(x+9) then fog(x)=	A. (x+9)3 B. x+3 C. x+9
8	If the geometric series $a+ar+ar^2+ar^3.....+ar^{k-1}$ which of the following is true for the given series	A. converges B. Diverges C. Give no information
9	π is a _____ number	A. rational B. irrational C. natural D. integer
10	If a slope m of a nonvertical line is m=1 then the angle of inclination of the line is	A. π /4 B. π /2 C. π /5
11	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
12	According to Power -Rule of differentiation ,if $f(x) =x^n$where n is a real number,then $d/dx[x^n]$	A. xⁿ⁻¹ B. nxⁿ⁻¹ C. (n-1)xⁿ⁻¹
13	if $x^2+y^2=9$ then dy/dx=?	A. x/y B. -x/y C. -y/x
14	What is the base of natural logarithm ?	A. 2.71 B. 10 C. 5
15	Center and radius of the circle is $(x+5)^2+(y-3)^2=16$ is	A. (-5,3),4 B. (5,-3),16

	Center and radius of the circle is $(x+5)^2+(y-3)^2=16$ is	C. (5,-3),4 D. None of these
16	The set {x:a<=x<=b} can be written in the form of interval ?	A. (a,b) B. (a.b) C. [a,b]
17	If a quantity y depends on another quantity x in such a way that each value of x determines exactly one value of y,we say that y is _____ of x	A. relation B. Function C. Nota function D. Not a Relation
18	If f is a continuous function such that $\lim_{x\to+\infty}=+\infty$ and$\lim_{x\to+\infty}=+\infty$ the f has on	A. maximum value but no minimum B. minimum value but not maximum C. both maximum and minimum value
19	Which of the following is the spring constant k if a spring constant whose natural length is 2m exerts a force of 3N when started 1m beyond its natural legth?	A. 3 x B. 3 N/m C. 2 m
20	An object is displaced 1m by a force of 1N then the work done	A. 2 B. 1 C. 0