STA-301 Quiz OnlineTest

Sr	Questions	Answers Choice
1	Sigma notation is represent by	A. M B. N C. Σ
2	y=1/1-x dy/dx if then	A. 1 B. -1 C. 1/(1-x)²
3	h(x)=1/(x-2)(x-4) domain of the function is	A. (-∞,2)U (2,4)U (4,+∞) B. (-∞,2)U (2,4)U (4,∞) C. All are incorrect
4	set{...-4,-3 ,-2,-1,0,1,2,3,4} is known as the set of	A. natural number B. Integer C. whole number
5	$\log_b 1/c$=_____?	A. log_bc B. 1-log_bc C. -log_bc D. 1+log_bc
6	$\log_b ac$_____?	A. log_ba + log_bc B. log_ba + log_bb C. None of these
7	Let $y=(x^3+ 2x)^{37}$which of the following is correct?	A. dy/dx=37(x³2x)³⁶ B. dy/dx=111x²(x³2x)³⁶ C. dy/dx=(111x²+74)(x³2x)³⁶
8	if $x^2+y^2=9$ then dy/dx=?	A. x/y B. -x/y C. -y/x
9	if xy=4 then dy/dx =?	A. 0 B. -1/x² C. -4/x²
10	If y=1/1-x the dy/dx=____?	A. -1 B. 1 C. 1/(1-x)²
11	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
12	no of x and y are intercept for the equation y=1/x	A. Two x intercepts B. Two y intercepts C. No x and y intercept correct D. None of these
13	Function f is differentiable function if it is differentiable on the interval	A. (-∞,∞) B. (a,<span style="color: rgb(34, 34, 34); font-family: arial, sans-serif; font-

		size: 16px;">∞) where a is any negative integer C. (0,∞) D. None of these
14	graph $x = y^2$ is symmetric about	A. x axis B. y axis C. origin
15	Center and radius of the circle is $(x+5)^2+(y-3)^2=16$ is	A. (-5,3),4 B. (5,-3),16 C. (5,-3),4 D. None of these
16	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
17	Average velocity of a body is V_{ave}	A. d₁-d_o/ t₁- t_o B. t₁-t_o/f(</sub>t₁₎-f(t_{o)} C. _{f(}t₁₎-f(t_{o)/}t₁-t_o D. None of these
18	$\log_b a^r$=____?	A. a log_br B. rlog_ba C. log_ba/log_br
19	Let x_o be the critical point of the function f,those critical point for which $f'(x_o)=0$ are called _____ of	A. Local points B. End points C. Stationary points
20	What is the base of natural logarithm ?	A. 2.71 B. 10 C. 5