# MTH-101 Final Term Exams Preparation Virtual University

| Sr | Questions | Answers Choice |
|----|-----------|----------------|
| 1 | If $a_1>a_2>......>a_n>....$ then a sequence $\{a_n\}$ is .... | A. increasing<br>B. non decreasing<br>C. decreasing<br>D. non increasing |
| 2 | For a function f ,let $f'(x_n)=0$ for some n Does the newton method for work for approximating the solution of $f(x)=0$ | A. yes<br>B. no<br>C. not sure |
| 3 | 2/3 is known as | A. even number<br>B. irrational number<br>C. natural number<br>D. rational number |
| 4 | $\lim_{x\to 0} \sin x / x$ | A. 1<br>B. -1<br>C. 0<br>D. 2 |
| 5 | tan x is continuous everywhere except at points | A. $+-k\pi/2$ (k=1,3,5....)<br>B. $+-k\pi/2$ (k=2,4,6....)<br>C. Not Sure |
| 6 | 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<br>B. Function<br>C. Nota function<br>D. Not a Relation |
| 7 | The graph $x=y^2$ is symmetric about ___ axis | A. X-axis<br>B. Y-axis<br>C. origin |
| 8 | For a graph to be symmetric about y axis mean ,for each point (x,y) on the graph the point ____ is also on the graph | A. (x,-y)<br>B. (-x,y)<br>C. (-x,-y) |
| 9 | At which points two curves $y=x^2$ and $y=x+6$ intersect? | A. x=0 and x=2<br>B. x=0 and x=3<br>C. x=2 and x=3<br>D. x=-2 and x=3 |
| 10 | Sigma notation which is represent which of the following greek letter? | A. χ<br>B. η<br>C. Σ<br>D. ψ |