

TKN/KS/16 – 6086

First Semester M. Sc. Examination**MICROBIOLOGY****Paper - I****(Microbial Diversity and Evolution)****(MDE)**

Time : Three Hours] [Max. Marks : 100

N. B. : All questions are compulsory and carry equal marks.

1. Discuss the evolution of earth and describe the evolution of primitive life

OR

Explain evolutionary and ribosomal RNA method for determining evolutionary relationship. 20

2. Discuss different characteristics of phylum Euryarchaeota.

OR

Explain various types of heat stable biomolecules and give their significance. 20

3. Discuss the general characteristics of verrucomicrobia.

OR

Give a detailed account on cyanobacteria. 20

4. Write in detail about green sulfur bacteria.

OR

Discuss the diversity and general characters of hyperthermophiles. 20

5. Write notes on :—

- (a) Molecular coding. 5
- (b) Nanoarchaeum. 5
- (c) Purple phototropic bacteria. 5
- (d) Deferribacter. 5