

M.Sc.(Microbiology) (NEP Pattern) Semester-I
NEP-71 / 01MSCMB01 - Microbial diversity and Evolution

P. Pages : 1

Time : Three Hours



GUG/W/24/15125

Max. Marks : 80

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| 1. | Describe the Ribosomal RNA sequencing and evolutionary chronometers. | 16 |
| | OR | |
| | a) Describe the microbial community analysis. | 8 |
| | b) Write a note on origin of Eukaryotes. | 8 |
| 2. | Describe the phylum Crenarchaeota in detail. | 16 |
| | OR | |
| | a) Write a note on Extremophiles. | 8 |
| | b) Describe the methanogens. | 8 |
| 3. | Describe the Phylum: Planctomyces. | 16 |
| | OR | |
| | a) Write a note on Microbial diversity of bacteria. | 8 |
| | b) Explain about the sulphate and sulphur reducing bacteria. | 8 |
| 4. | Describe about the phylum: Nitrospira and deferribacter. | 16 |
| | OR | |
| | a) Write a short note on Phylum: green non sulphur bacteria. | 8 |
| | b) Describe Phylum: Aquifex. | 8 |
| 5. | Write a note on. | |
| | a) RNA world | 4 |
| | b) Phylogenetic probe. | 4 |
| | c) Phylum: Cyanobacteria | 4 |
| | d) Phylum : Thermotoga. | 4 |
