

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

P. Pages : 1

Time : Three Hours



GUG/S/25/15125

Max. Marks : 80

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1. Give detail account on ribosomal RNA sequencing method for determining evolutionary relationship. 16

OR

- a) Discuss about evolution of earth and early life forms. 8
b) Give the information about characteristics of domain of life. 8

2. Explain in detail about phylum euryarchaeota with example. 16

OR

- a) Give an account on evolutionary significance of hyperthermophiles. 8
b) Discuss general characteristics and metabolism of methanogens. 8

3. Discuss in detail about the general characteristics of sulphate and sulphur reducing bacteria. 16

OR

- a) Give the information about phylum planctomyces. 8
b) Discuss the significance of free living N_2 fixing bacteria. 8

4. Explain general characteristics and metabolism of green non-sulphur bacteria. 16

OR

- a) Describe about the phylum Nitrospira. 8
b) Give an account on phylum- Cytophaga. 8

5. Describe the following.
a) Bacteria Speciation. 4
b) Nanoarchaeum. 4
c) Iron oxidizing bacteria. 4
d) Aquifer. 4
