

M.SC.(Microbiology) First Semester (OLD)
MB1-T004 - PAPER-I : Microbial Ecology

P. Pages : 1

Time : Three Hours



GUG/W/18/2189

Max. Marks : 80

Notes : 1. All questions are compulsory and carry equal marks.

1. Discuss freshwater environment in detail. 16

OR

Write note on followings.

- a) Marine microbiology. 8
- b) Terrestrial environment. 8

2. Describe the followings. 8

- a) Shannon Index. 8
- b) Stability hypothesis. 8

OR

Write note on followings.

- a) Theories of succession. 8
- b) Cluster analysis. 8

3. Describe genetic structure of population with reference to genotype and allele frequency. 16

OR

Write note on followings.

- a) Hardy-Weinberg natural selection. 8
- b) Random genetic drift. 8

4. Discuss positive microbial interactions with example. 16

OR

Describe the followings.

- a) Management and improvement of barren land. 8
- b) Sustainable development. 8

5. Write short note on followings.

- a) Hydrothermal vents. 8
- b) Jaccard hypothesis. 8
- c) Assortative mating. 8
- d) Oil spills. 8
