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**MBS 508**

**III Semester M.Sc. Examination, December 2018**  
**MICROBIOLOGY (CBCS-PG-CGPA)**  
**Microbial Ecology**

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following :

**(3×10=30)**

- 1) Discuss on different types of microbial interaction with examples.
- 2) Illustrate the role of microbes in cycling of carbon and nitrogen in the ecosystem.
- 3) Explain marine water eco-system.
- 4) Discuss microbial mediated bioremediation and their significance.
- 5) Describe microbial interactions with plants.

II. Write notes on **any five** of the following :

**(5×5=25)**

- 6) Microbial ecology in man-made environments.
- 7) Microbial Communities.
- 8) Quorum sensing.
- 9) Microbial habitat and niche.
- 10) Primary producers in food chain.
- 11) Microbes in Extreme Environments.
- 12) Role of microbes in terrestrial ecosystem.
- 13) Hot springs.

P.T.O.



III. Write short notes on **any five** of the following :

**(5×3=15)**

- 14) Aquaculture.
  - 15) Landfills.
  - 16) Lichens.
  - 17) Nitrate reductase.
  - 18) Acid rain.
  - 19) Rumen microflora.
  - 20) Archeabacteria.
  - 21) Weathering of rocks.
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