

October-2015

B.Sc. Examination

Semester - III

Paper Name: Mi-303-Introduction to Environmental Microbiology

Paper Code: 3792

Time: 2:30 Hours

Total Marks: 70

Instructions: (a) Figure to the right indicates total marks of respective question.
(b) Draw neat, clean and labeled diagram wherever necessary.

- 1.(a) Explain: Temperature as an extreme environment. 10
1.(b) Describe: Anoxic environment. 04

OR

- 1.(a) Explain: Distribution of Microorganism in nature & various natural habitats. 10
1.(b) Write a short note on: Halophiles. 04
2.(a) Describe: Plant-Microbe interaction with example. 10
2.(b) Write a short note on: Below ground parts. 04

OR

- 2.(a) Explain: Interaction of leguminous plants with nitrogen fixing bacteria. 10
2.(b) Write a short note on: Radiation Pollution. 04
3.(a) Enlist air pollutants and explain pollution of air by them. 10
3.(b) Write a short note on: Noise Pollution. 04

OR

- 3.(a) Explain: Biodegradation of Alkyl Benzyl Sulfonate(ABS). 10
3.(b) Write a short note on: Application of Bioremediation. 04
4.(a) Describe: Animal- Microbe interaction. 10
4.(b) Write a short note on: Clay-Humus microbe interaction. 04

OR

- 4.(a) Discuss: Archaeobacteria as an environmental extreme. 10
4.(b) Write a short note on: Osmosis. 04
5.(a) Explain: Heavy metal pollution in environment. 10
5.(b) Write a short note on: Biodegradation of solid wastes. 04

OR

- 5.(a) Describe: Fungal-Algal interaction. 10
5.(b) Write a short note on: Insecticides. 04