

M.Sc. (Micro) Semester - 3 (CBCS) Examination**Oct/Nov. -2019 – [NEW COURSE]****Ecology and Environmental Microbiology (Elective)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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Que.1 Answer the following(Any seven out of ten, each of 02 marks) (14)

1. What is metapopulation?
2. What are biodiversity and conservation?
3. Enlist types of environmental pollution.
4. What is an ecosystem? Give their types.
5. What is bioremediation?
6. Define the term xenobiotic.
7. Enlist organisms useful in the degradation of pesticides.
8. What is phytoremediation?
9. What is energy flow?
10. What is GMO? Give an example.

Que.2 Answer the following(Any two out of three, each of 07 marks) (14)

- a. Write a note on population ecology.
- b. Write about the level of species diversity and measurements.
- c. What is species interaction? Describe briefly.

Que.3 Answer the following(a & b – both are compulsory, each of 07 marks) (14)

- a. Write a short note on biogeography.
- b. Discuss global environmental changes.

OR

Que.3 Answer the following(a & b – both are compulsory, each of 07 marks) (14)

- a. Write is the implications of the conservation biology.
- b. What are the ecosystem structure and N cycle? Discuss in detail.

Que.4 Answer the following (a & b – both are compulsory, each of 07 marks) (14)

- a. Write a brief note on the treatment of industrial effluents.
- b. Write a detail note on the biodegradative pathway of mercury.

Que.5 Answer the following(Any two out of four, each of 07 marks) (14)

- a. Write a note on the implications of environmentally friendly technology.
- b. Write a detail note on the conservation of biodiversity.
- c. What is pollution monitoring? Describe.
- d. Write on the role of genetically modified organisms.
