



Full Marks :40

Third Semester Examination-2018**M.Sc. BOTANY****Paper Code: BOT-301****ECOLOGY & ENVIRONMENTAL BIOLOGY****Time: 2 Hours**

- 1. Answer any four questions from the following:** **2×4=8**
- a) Compare Mutualism with Commensalism.
 - b) What are Fundamental niche and Realised niche.
 - c) What is carrying capacity?
 - d) Mention the physiological adaptive features of halophytes.
 - e) Mention the difference between Deep ecology and Shallow ecology.
 - f) Mention the difference between r-selection and k-selection.
 - g) What do you mean by ozone depletion?
 - h) Define ex-situ and in-situ conservation.
- 2. Answer any four questions from the following:** **4×4=16**
- a) Central pollution control board (CPCB).
 - b) Phytoremediation.
 - c) Silent-Valley movement.
 - d) Importance of biodiversity conservation in India.
 - e) Sustainable development policies.
 - f) Food web.
 - g) Causes and effects of air pollution.
 - h) Impact of acid rain on plants.
- 3. Answer any four questions from the following:** **8×2=16**
- a) Define Succession. What is Primary and Secondary Succession? Describe the mechanism of Succession. **2+2+4=8**
 - b) Define Biodiversity. Write down the full form of IUCN. Explain the different level of Biodiversity. Mention the importance of Biodiversity. **1+4+3=8**
 - c) Discuss the objectives, steps and activities of Environmental impact assessment in India. **2+2+4=8**
 - d) Discuss anatomical, physiological and biochemical adaptations of plants in Xerophytic environment. **2+3+3=8**