

**Fourth Semester Online Examination**

**M.Sc. BOTANY**

**Paper - II ( Ecology II )**

**(POLLUTION AND BIODIVERSITY CONSERVATION)**

**Max. Marks : 80**

- Part A and B of each question in each unit consist of **very short answer type** questions which are to be answered in one or two sentences.
- Part C (**Short answer type**) of each question should be answered in 200-250 words.

Part D (**Long answer type**) of each question should be answered within the word limit (400- 450).

**Unit - I**

Q.1 A. What are terrestrial and aquatic biomes ? (2)

Q.1 B. What do you mean by laterite ? Write its chemical composition. (2)

Q.1 C. Write an essay on grassland vegetation. (4)

**OR**

Write an essay on forest vegetation.

Q.1 D. What do you understand by climate? Discuss climatic zones of India in detail. (12)

**OR**

What is Biome? Write an essay on major biome.

**Unit - II**

Q. 2. A. What do you mean by Particulate Matters (PM). ? (2)

Q.2 B. What is C.O.D. ? What should be the COD of fresh water and contaminated water? (2)

Q.2 C. Write a note on green house gases and its effects. (4)

**OR**

Explain Air quality parameters of C, S, and Nitrogen compounds ?

Q.2 D. Write an essay on Soil pollution and its effects on plant and ecosystem. (12)

**OR**

Write a detail essay on ozone layer and ozone hole.

### **Unit - III**

Q.3 A. What are hot spots? (2)

Q.3 B. What do you understand by primary and secondary centers of origin of crop plants? (2)

Q.3 C. Explain Bio- Diversity index? (4)

**OR**

What is IUCN Red Data List? Explain.

Q.3 D. Explain role of biodiversity in ecosystem function and stability. (12)

**OR**

What is plant introduction? Explain its types, procedure, purpose, merits and demerits.

### **Unit - IV**

Q.4 A. What is International Union for Conservation of Nature (IUCN) ? (2)

Q.4 B. What are Sanctuaries, National parks & Biosphere reserves. (2)

Q.4 C. Write an essay on Ramsar sites. (4)

**OR**

Explain Mangroves and coral reefs for conservation of wild biodiversity.

Q.4 D. Explain Mangroves and coral reefs conservation of wild biodiversity. (12)

**OR**

Write an essay on National Bureau of Plant Genetic Resources (NBPGR),