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**Code No. : B04-204**

Fourth Semester Online Examination, May-June, 2022

**M. Sc. BOTANY**

**Paper II**

**PLANT ECOLOGY - II**

**(POLLUTION & BIODIVERSITY CONSERVATION)**

Time : Three Hours ] [ Maximum Marks : 80

**Note :** ● Part A and B of each equation 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) and D (Long answer type) of each question should be answered within the word limit 200-250 and 400-450.

**Unit-I**

1. (A) Write the two characteristic features of Fresh and Marine water. 2
- (B) Write the name of grassland vegetation in India. 2
- (C) Write a notes on Forest Vegetation in India. 4

**Or**

Write a note on types and classification of soils.

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(D) To describe the major biomes in India and World.

12

**Or**

Write a detailed note on climate of India.

**Unit-II**

2. (A) What do you mean by Acid rains ? 2
- (B) What is hydrocarbons ? 2
- (C) What is ozone layer and how does CFC destroy the ozone layer ? 4

**Or**

Write the effects of chloride and phosphate compounds in plant and ecosystems.

(D) Write a detailed notes on Air pollution in India and also discuss about Chhattisgarh states. 12

**Or**

What is Green House Gases (GHG) ? How it is formed and detailed discuss about green house gases affect the climate change ?

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**Unit-III**

3. (A) Write the formulas of Pilou's method of diversity index. 2
- (B) Write the name of countries included Indo-Burma bio-diversity. 2
- (C) Write a notes on speciation and extinction of Bio-diversity. 4

**Or**

What is Bio-diversity ? Write the concept, principle and status in India.

- (D) What are all the categories of threatened plants and explain according to IUCN ? 12

**Or**

What is Biodiversity index ? Write the factors, calculations and Inter-pretation of diversity indices.

**Unit-IV**

4. (A) Write the name of Ramsar sites in India. 2
- (B) Write the examples of Ex situ and In situ conservations. 2

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- (C) Write a note on coral reefs conservation in India. 4

**Or**

Write a note on environmental status of plant conservation according to IUCN.

- (D) Write a detailed notes of "Botanical Survey of India". 12

**Or**

Write a detailed notes on Biosphere reserves and wetland places in India and Chhattisgarh also.

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