

Roll No. : .....

Total No. of Questions : 16 ]

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# **CENV-314**

**M.Sc. (IIIrd Semester) Examination, Jan.-2023**

## **ENVIRONMENTAL SCIENCE**

Paper - FS-ENV-CE-303(b)

**(Biomes and Biogeography)**

*Time : 3 Hours ]*

*[ Maximum Marks : 40*

The question paper contains three Sections.

### **Section-A**

**(Marks : 1 × 10 = 10)**

*Note :-* The candidate is required to answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

### **Section-B**

**(Marks : 3 × 5 = 15)**

*Note :-* The candidate is required to answer *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answer should not exceed **200** words.

### **Section-C**

**(Marks : 5 × 3 = 15)**

*Note :-* The candidate is required to answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

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### Section–A

1. (i) What is Tundra Biome ?
- (ii) Who developed Climatic Zone System ?
- (iii) What is the climate of Terrestrial Biome ?
- (iv) Where is mangrooves vegetation found ?
- (v) Give any *two* examples of Ramsar Site.
- (vi) Write importance of kelp forest.
- (vii) Which zoogeographical realm is the largest ?
- (viii) What is significance of continental drift ?
- (ix) Which is the biggest forest in areawise in India ?
- (x) Define Wetland.

### Section–B

#### Unit–I

2. Describe the classification of land biome.
3. Write a note on wildlife and climate of mountain biome.
4. Write a note on forest and vegetation types of terrestrial biome.

#### Unit–II

5. Describe challenges of life in Marine Biome.
6. Explain vegetation and wildlife of mangroove biomes.
7. Describe physiochemical characteristics and biota of estuaries.

#### Unit–III

8. Write a detailed note on phytogeographic regions of India.
9. Describe the geographical reasons. Why India has an extremely rich and diverse biodiversity ?
10. Write a note on protected area network.

## **Section–C**

### **Unit–I**

11. Write a detailed note on climate and edaphic factors of terrestrial biome.
12. Describe the role of latitudinal and altitude changes lead to variation in biodiversity of mountain biome.

### **Unit–II**

13. Describe the types, resources and ecological functions of wet lands.
14. Write notes on the following :
  - (a) River biome
  - (b) Lake and pond biome

### **Unit–III**

15. Write detailed note on Zoogeographic regions of the World and their biodiversity.
16. Describe the various types of vegetations and forests in India.