

Roll No. :

Total No. of Questions : 16]

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SENV-313

M.Sc. (IIIrd Semester) Examination, 2021

ENVIRONMENTAL SCIENCE

Paper - ESCE-303 (B)

(Biomes and Biography)

Time : 1½ Hours]

[Maximum Marks : 40

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

Section-A

1 each

1. Attempt all *ten* questions. Answer should not exceed **50** words in each question.

(i) Write the salient features of Savanna biome.

(ii) Which plant species are commonly found in Tundra biome ?

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- (iii) Write the difference between Tundra and Taiga.
- (iv) Give the abiotic factors influencing aquatic biome.
- (v) Define Pelagic Zone.
- (vi) What is Estuary ?
- (vii) Give definition of Paleobiogeography.
- (viii) Write names of the biogeographical processes.
- (ix) What do you mean by sanctuary ?
- (x) What do you mean by wetlands ?

Section-B

3 each

Note :- Answer *five* questions in about **200** words, by selecting at least *one* question from each Unit. Each question carries **3** marks.

Unit-I

- 2. Explain the Chaparral biome with example.
- 3. Describe the characteristics of boreal forest.
- 4. Why tropical rainforests are the most biodiverse terrestrial biome ? Give reasons.

Unit-II

- 5. Differentiate between Kelp forest and saltwater marsh.
- 6. Write a short note on Mangroves.
- 7. Explain pond ecosystem with suitable diagram.

Unit-III

8. Write the types of protected area network with examples.
9. What is Disturbance ? How does it cause ecological biogeography ?
10. How 'k-strategy' and 'r-strategy' concepts are related to selection pressure for different life history traits ?

Section-C

5 each

Note :- Answer *three* questions in this Section, by selecting *one* question from each Unit in about **500** words. Each question carries **5** marks.

Unit-I

11. Discuss mountain biome with example of Himalayan mountain.
12. Explain desert biome, its types, salient features and examples.

Unit-II

13. What is a Wetland ? Describe its types, ecological functions and resources.
14. Explain Ocean biome, its categories and salient characteristics with suitable diagram.

Unit-III

15. What is continental drift ? Discuss its causes and consequences for distribution of life on earth.
16. Write a detailed note on India's forests and vegetation types.