

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

CENV-115

M.Sc. (Ist Semester) Examination Jan., 2023

ENVIRONMENTAL SCIENCE

Paper - ESCC-101

(Environment and Ecology)

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.

BRI-944

(1)

CENV-115 P.T.O.

Section–A

1. Answer all the questions :
 - (i) Define Environmental Complex.
 - (ii) What is Lapse Rate ?
 - (iii) Define food chain. Name the three types of Food Chains.
 - (iv) Write about human ecology.
 - (v) Enlist major limiting factors of a grassland ecosystem.
 - (vi) Give the importance of biogeochemical cycling.
 - (vii) Define pools and fluxes.
 - (viii) What is Sedimentary Cycle ? Give examples.
 - (ix) Why energy flow in any ecosystem is always unidirectional ?
 - (x) What is Marine Ecosystem ?

Section–B

Unit–I

2. Write about holistic concept.
3. Explain about physical properties of soil.
4. Write a note on ecological amplitude.

Unit–II

5. Explain the principles and scope of ecology.
6. Describe about ecological pyramids and its types.
7. Give the concept and importance of ecotone.

Unit–III

8. What are the anthropogenic impacts on Carbon Cycle ?
9. Describe the hydrological cycle.
10. Give the importance of sulphur cycle.

Section–C

Unit–I

11. Explain about the environmental components and their interrelationship.
12. Describe the factors affecting the climate of a region.

Unit–II

13. Write a detailed note on freshwater ecosystems.
14. Describe the concept of population and community.

Unit–III

15. Explain the nitrogen cycle in detail.
16. Describe nutrient cycling in a forest ecosystem.