

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

CENV-313

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

ENVIRONMENTAL SCIENCE

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

(Population and Community 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-950

(1)

CENV-313 P.T.O.

Section–A

1. (i) What do you mean by Environmental Biology ?
- (ii) Define Carrying Capacity.
- (iii) What is Primary Productivity ?
- (iv) Give definition of Demography.
- (v) Write the difference between population size and population density.
- (vi) What is Biostimulation ?
- (vii) Write about niche and habitat.
- (viii) What is Symbiosis ? Give example.
- (ix) What are Keystone Species.
- (x) Write about Secondary Succession.

Section–B

Unit–I

2. Write a note on Biosphere as ecosystem.
3. Explain about the ecophysiological adaptations in plants for temperature extremes.
4. What are Ecological Processes.

Unit–II

5. Differentiate between k and r selected species.
6. Write about age distribution diagram.
7. Describe factors leading to commonness.

Unit–III

8. Write about concept and types of communities.
9. Explain the factors necessary to main stability of an ecosystem.
10. Describe the role of energy in a community.

Section–C

Unit–I

11. Describe the role of biological processes in remedial measures.
12. Explain the anthropogenic impact on atmosphere and climate.

Unit–II

13. Describe the factors affecting population growth.
14. Write a detailed note on population dynamics.

Unit–III

15. Discuss in detail about inter and intra specific interactions.
16. Explain in detail about succession.