

Roll No. : .....

Total No. of Questions : 16 ]

[ Total No. of Printed Pages : 3

# SENV-110

M.Sc. (Ist Semester) Examination, 2021

ENVIRONMENTAL SCIENCE

Paper - ES-101

(Environment and Ecology)

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 at least *one* question from each Unit (Answer limit **500** words). Each question carries 5 marks.

Section-A

1 each

1. (i) What is Homeostasis ?
- (ii) Define Organismal Ecology.

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- (iii) What do you mean by Continental Shelf ?
- (iv) Write the chemical composition of Sea Water.
- (v) What is Asthenosphere ?
- (vi) Write the two examples of manmade ecosystem.
- (vii) What do you mean by Trophic Level ?
- (viii) Why a energy pyramids are always upright ?
- (ix) Differentiate between autoecology and synecology.
- (x) What do you mean by Sedimentary Cycle ?

**Section-B**

3 each

**Unit-I**

- 2. Explain the holistic concept.
- 3. Discuss edaphic factors.
- 4. Describe about biosphere.

**Unit-II**

- 5. Discuss human settlement.
- 6. What are ectones ? Discuss their characteristics and importances.
- 7. Discuss levels of ecology.

**Unit-III**

- 8. Describe about nutrient cycling in aquatic ecosystem.
- 9. What are Pools and Fluxes ?
- 10. What are Biogeochemical Cycles ? Discuss.

**Section-C**

5 each

**Unit-I**

- 11. Discuss atmospheric layers in detail.
- 12. Describe various climatic factors.

### **Unit-II**

13. What are Ecological Pyramids ? Describe in detail.
14. Define forest ecosystem. Describe any *one* forest ecosystem in detail.

### **Unit-III**

15. Discuss any *one* gaseous cycle in detail.
16. Discuss any *one* sedimentary cycle in detail.