

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEME-410 (A)

M.Sc. (IVth Semester) Examination, 2022

ENVIRONMENTAL SCIENCE

Paper - ES-CE-402 (B)

(Biodiversity and Conservation)

Time : 1½ Hours]

[Maximum Marks : 40

The Question paper contains three Sections.

Section-A (Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions carries 1 mark each. The answer should not exceed 50 words.

Section-B (Marks : 3 × 5 = 15)

Note :- Answer *five* questions by selecting at least *one* question from each Unit. Each question carries 3 marks. Answers should not exceed 200 words.

Section-C (Marks : 5 × 3 = 15)

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

Section-A

1. (i) Define species diversity.
- (ii) What do you mean by biodiversity hotspots ?

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- (iii) Write names of biodiversity hotspots of India.
- (iv) What is human-wildlife conflict ?
- (v) What does 'Red' represent in the IUCN Red List ?
- (vi) Give the definition of Bioprospecting.
- (vii) Give names of vegetation zones of Rajasthan.
- (viii) Define Endemism.
- (ix) What is Red Data Book ?
- (x) What is a gene pool ?

Section-B

Unit-I

- 2. Explain classification of Biodiversity.
- 3. Differentiate between ex-situ and in-situ biodiversity conservation.
- 4. Differentiate Endangered and Threatened species with examples.

Unit-II

- 5. Write a short note on Use of Plants in Traditional Medicine.
- 6. Wild species are important in agriculture. Give reasons.
- 7. Explain plant utility in scientific research and technological inventions.

Unit-III

- 8. What is the role of animal species in medicine ? Explain.
- 9. Differentiate between national park and wildlife sanctuary.
- 10. Describe role of animals in conservation of natural ecosystems.

Section-C

Unit-I

- 11. What is Biodiversity ? What is it important ? Discuss the causes of biodiversity declination and strategies of biodiversity conservation.
- 12. Describe Rapid assessment of biodiversity and biodiversity valuation in detail.

Unit-II

13. Elaborate vegetation zones of India with examples.
14. Give a detailed note on value of microbes in medicinal, scientific and technological research solutions and inventions.

Unit-III

15. Describe Ecotourism in wilderness and protected area network.
16. Discuss the role of wild and domesticated fauna in human nutrition.