

[SZ - S 370 B]

M.Sc. DEGREE EXAMINATION

Zoology

Third Semester

**PRINCIPLES OF ECOLOGY AND
CONSERVATION**

(Effective from the admitted batch of 2022-2023)

Time : 3 hours

Max. Marks : 70

*Answer ALL questions.
All questions carry equal marks.*

UNIT - I

1. (a) Explain the biosphere concept, organization and significance.
- (b) Discuss the concept of limiting factors.

(OR)

2. (a) Describe the different aspects of niche.

- (b) Write notes on shelford law of tolerance

UNIT - II

3. (a) What is biome? Explain the impact of climate on biomes?
- (b) Describe the methods of primary production estimation.

(OR)

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4. (a) What are biogeochemical cycles? Describe the nitrogen cycle in detail.
- (b) Discuss the global climate pattern.

UNIT - III

5. (a) Explain the terms Natality, mortality, biotic potential and carrying capacity in detail.
- (b) Discuss the patterns of population distribution.

(OR)

6. (a) Write an essay on ecological modelling.
- (b) Describe the role of models to explain population growth.

UNIT - IV

7. (a) Explain the species diversity of a community. Add a note on its measurement.
- (b) Give an account on community structure and attributes.

(OR)

8. (a) Discuss the demography construction of life tables and their applications.
- (b) Discuss the various types and trends of succession.

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~~UNIT - V~~

9. ~~(a)~~ Write an account on biodiversity status monitoring and documentation.

~~(b)~~ Write notes on mangrove ecosystem.

(OR)

10. ~~(a)~~ Explain the biogeographical zones of India.

~~(b)~~ Discuss the biodiversity hotspots in India.

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