

K26P 1240

Reg. No. :

Name :

Second Semester M.Sc. Degree (C.B.C.S.S. – O.B.E. – Reg./Supple./Imp.)
Examination, April 2026
(2023 Admission Onwards)

ZOOLOGY/ZOOLOGY (STRUCTURE, PHYSIOLOGY, DEVELOPMENT AND
CLASSIFICATION OF ANIMALS)

MSZGY02C10/MSZNG02C10 : Environmental Biology

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** of the following. **Each** question carries **3** marks.

1. Enlist major islands present near the shoreline of India.
2. Explain Edges and add a note on ecotones.
3. Differentiate GPS and GIS.
4. Differentiate between fundamental and realized niche with examples.
5. Comment on environmental hazards caused by E-wastes.
6. Describe the characteristics of survivorship curves.

(5×3=15)

PART – B

Answer **any three** of the following. **Each** question carries **6** marks.

7. Evaluate the importance of metapopulation concept in population ecology. Add a note on Levin's model of metapopulation.
8. Explain the different levels of species diversity and evaluate the methods used to measure species diversity in ecological studies.
9. Describe the major biogeographical zones of India and discuss their ecological significance.

P.T.O.

K26P 1240

10. Examine the importance of ecological indicators in monitoring ecosystem health with examples.

11. Examine the differences between primary and secondary succession with suitable examples.

(3×6=18)

PART – C

Answer **any three** of the following. **Each** question carries **9** marks.

12. Briefly explain the species interactions.
13. Examine the Ecological footprint and how can individuals, communities and governments work to reduce their ecological footprint.
14. Outline the importance of EIA in biodiversity conservation.
15. Analyse the energy flow and mineral cycling in ecosystems, focusing the Carbon cycle.
16. Examine the importance of wetlands in biodiversity conservation and carbon storage.

(3×9=27)