

A-0926

Total Pages : 3

Roll No.

ENSE-654/EVS-606

M.Sc. (Environmental Science) (MSCES)

Ecophysiology and Ecotoxicology

Examination February, 2026

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-A

(Long Answer Type Questions) (2×19=38)

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

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(1)

P.T.O.

1. What is ecotoxicology ? Discuss in detail about the origin and history of ecotoxicology.
2. Describe in detail about the mechanisms of toxic substances, circulation and exposure.
3. What is Biotransformation ? Explain the role, consequences and advantages of biotransformation.
4. Explain in detail about the effects of high temperature stress on plants.
5. Describe in detail about the term Allelopathy and different types of allelopathy chemicals.

Section–B

(Short Answer Type Questions) (4×8=32)

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Discuss in detail about the Biological Rhythms and Human Health.
2. Write a brief account of Adaptive mechanisms to low temperature stress in plants.

3. Explain adaptation of man to high altitudes in detail.
4. Differentiate between abiotic and biotic stresses.
5. Discuss in detail about the interdisciplinary significance of ecotoxicology.
6. Classify the toxicants according to their characteristic and presence in the environment.
7. Describe the heavy metal biosorption in detail.
8. Write a brief note on ecological interactions.
