

**A-1029**

**Total Pages : 3**

**Roll No. ....**

**EVS-606**

**M.Sc. ENVIRONMENTAL SCIENCE (MSCES)**

**(Ecophysiology and Ecotoxicology)**

**4th Semester Examination, Session December 2024**

**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.*

1. Describe the concept, origin and scope of ecophysiology.
2. Discuss the process of photorespiration and CAM Pathways.
3. Describe about nature and mechanism of physiological stressors.
4. What do you understand by allelochemical ? Discuss the mechanism of action of allelochemicals.
5. What is ecotoxicology ? Describe the origin, history and branches of eco-toxicology.

### **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. Write a short note on Kairopathy and proto-cooperation.
2. Write note on followings :
  - (a) Biological rhythm
  - (b) Predation
3. Discuss about the impact of temperature and light on organisms.

4. Discuss the impact of fire on ecology.
5. Write note on teratogens and mutagens.
6. Give a descriptive note on bioaccumulation with suitable examples.
7. Describe the distribution and fate of eco-toxicants.
8. Give a note on thermoregulation.

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