

**K-547**

Total Pages : 3

Roll No. ....

## **MSCZO-508**

### **ENVIRONMENTAL BIOLOGY**

M.Sc. Zoology (MSCZO)

2nd Semester Examination, 2023 (Dec.)

**Time : 2 Hours]**

**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)**

**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.

(2×19=38)

1. Define environment. Give detailed account of various environmental factors.
2. What do you understand by ecological succession? Describe various patterns of succession.
3. What do you mean by ozone layer depletion? Describe various anthropogenic damage caused to the ozone layer.
4. What is ecological niche? Write in detail about the niche concepts.
5. What is population? What are the different methods to measure population density?

## **SECTION-B**

### **(Short Answer Type Questions)**

**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. (4×8=32)

1. Write short note on Verhulst-pearl logistic growth model.
2. What do you understand by stochastic and time lag model of population growth?

3. Give the detailed account of symbiosis.
  4. Discuss how the change in land use pattern have increased malaria.
  5. What do you understand by the concept of threatened species?
  6. Write the causes and the process of succession in brief.
  7. Write in detail about the concept of climax.
  8. Write an essay about the air pollution.
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