

# C304

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## MSCZO-508

### Environmental Biology

M.Sc. Zoology (MSCZO)

2nd Semester Examination, 2022 (June)

**Time : 2 Hours]**

**Max. Marks : 80**

**Note :** This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### SECTION–A

#### (Long Answer Type Questions)

**Note :** Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. What is population density? Describe methods of measuring population density.

2. Explain in detail the Logistic and Exponential growth curve.
3. Explain the models of prey- predation dynamics.
4. What is pollution? What are the various types of pollution?
5. Describe types of Ecological Succession.

### **SECTION-B**

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

**Note :** Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Describe stable age distribution.
2. Write a short note on :
  - (a) Prey.
  - (b) Selectivity.
3. Explain Optimal Foraging Theory (OFT).
4. Why Symbiosis is referred as "source of life".
5. What is the difference between Commensalism and Amensalism?

6. Why ecotones are of great significance in ecology?
  7. What is significance of species diversity?
  8. What are the major factors for diversity change?
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