

A-241

Total Pages : 3

Roll No.

MSCZO-508

M.Sc. ZOOLOGY (MSCZO)

(Environmental Biology)

2nd Semester Examination, 2024 (June)

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. What is population growth ? What are the major characteristics of population growth ?
2. Explain in details about the Lotka-Volterra predation equations in context to predation-prey system.
3. What is community structure. What are the different methods to measure species diversity ?
4. Explain in details the logistic and exponential growth curve ?
5. Write an essay about the soil pollution.

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. Explain the different aspects of natality and mortality along with different survivorship curve.
2. Differentiate between edge and ecotones.
3. What are the causes and effects of solid waste pollution ?
4. Write in brief about the effect of keystone species on community structure.

5. Discuss how the global environmental changes have threatened the human health.
6. What is conservation biology ? What are the principles of conservation biology.
7. Discuss how the dams affect our ecosystem.
8. What is interspecific and intraspecific competition ? Discuss various types of intraspecific competition.
