

Exam. Code : 211201
Subject Code : 3870

M.Sc. Zoology 1st Semester

ANIMAL ECOLOGY

Paper-ZOOC-502

Time Allowed—3 Hours]

[Maximum Marks—100

Note :—Candidates are required to attempt **five** questions, selecting at least **one** from each section. The **fifth** question may be attempted from any section.

SECTION—A

1. (a) Write a note on the structure and function of grassland ecosystem.
- (b) Give an account of sources and effects of water pollution. 10+10=20
2. (a) Give an account of temperature as an ecological factor.
- (b) Discuss about the sources and effects of air pollution. 10+10=20

SECTION—B

3. (a) Define the term Niche. Give an account of modern concept of Niche.
- (b) How the Niche parameters are affected by Competition and Predation ? 10+10=20
4. (a) Define the term Predation and give an account of predator-prey relationship.

- (b) Write note on food, its distribution and relative and absolute shortages. 10+10=20

SECTION—C

5. (a) Explain in detail the deep sea adaptations in animals.
(b) Write a note on the population growth and its regulation. 10+10=20
6. (a) Define the term mimicry and explain its types.
(b) Discuss in detail about life tables and longevity. 10+10=20

SECTION—D

7. Give a detailed account of bio-monitoring of environment using animal species. 20
8. Discuss in detail the different zoo geographical regions of the world. 20