

M.Sc. DEGREE EXAMINATION, OCTOBER 2015.

THIRD SEMESTER

Zoology

Paper I — ENVIRONMENTAL BIOLOGY

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

SECTION A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Mountains and Caves.
2. Eutrophication.
3. Nitrogen cycle.
4. Food web.
5. Green house effect.
6. Epidemiological indices.
7. Remote sensing.
8. International convention on ozone.

SECTION B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Give an account on the classification and characteristics of marine environment.

Or

10. Define community. Give a detailed account of stratification in forest community with suitable examples.

11. How do you estimate the energy budget of a freshwater pond ecosystem? Explain.

Or

12. What is energy flow? Describe the impact of environmental factors on energy flow in different ecosystems.

13. Define the term pollution and discuss the effects of Air pollution.

Or

14. Give an account of water pollution. Describe the modern methods of waste water treatment.

15. What is bioremediation? Explain the need and scope of bioremediation.

Or

16. Give a detailed account of the biological monitoring programs.

