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M.Sc. DEGREE EXAMINATION, NOVEMBER 2016.

FIRST SEMESTER

Environmental Sciences

Paper I — ECOLOGY AND ENVIRONMENT

Time.: Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. Nitrogen Cycle
2. Biomes
3. Food chain
4. Population Density
5. Mutualism
6. Plate Tectonics
7. Lithosphere
8. Biological factors

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Explain the importance of biogeochemical cycles.  
Or
10. Write note on scope and importance of environmental science.
11. Discuss the components of ecosystem with suitable examples.  
Or
12. Explain the following :
  - (a) Energy flow in an ecosystem.
  - (b) Ecological pyramids.

13. Describe the growth form of a population. How is it regulated?

Or

14. What is meant by ecological succession? Explain the process of ecological succession.

15. Describe the different types and properties of rocks.

Or

16. Write an essay on soil erosion with special reference to India.

