

FINAL YEAR B.Sc. DEGREE EXAMINATION, MARCH/APRIL 2005**Part III—Group (V)—Zoology****Paper VI—ENVIRONMENTAL BIOLOGY, ETHNOLOGY AND EVOLUTION**

Time : Three Hours

Maximum : 55 Marks

I. Answer any ten of the following :—

- 1 List the effects of oil spills on marine habitat.
- 2 Draw a food chain.
- 3 What is Diurnal migration ?
- 4 Explain germplasm theory.
- 5 Mention any two features of Eutrophic lakes.
- 6 Explain the types of fossils.
- 7 What do you mean by ecological succession ?
- 8 Write notes on soil erosion.
- 9 What is gene pool ?
- 10 State Allen's rule.
- 11 Distinguish between poikilotherms and homeotherms.
- 12 How will you measure the transparency of waterbody ?
- 13 Name the zoogeographical realms.
- 14 Define neustons.
- 15 Vermiform appendix is an evidence for evolution—Discuss.

(10 × 1 = 10 marks)

II. Answer any five of the following :—

- 16 What are non-renewable energy sources ? Discuss about their exploitation and management.
- 17 Discuss the behaviour of insect societies.
- 18 Describe the adaptations of soil animals.
- 19 What are the various factors that affecting the distribution of animals ?
- 20 What is symbiosis ? Give a broad outline of various types of interactions among organisms.
- 21 Explain the chromosome theory of inheritance.
- 22 Briefly explain the concepts of limiting factors.
- 23 Discuss about the possible levels of environmental education in the country.

(5 × 5 = 25 marks)

III. Answer any *two* of the following :—

24 Give an account on causes and effects of air pollution. Suggest suitable methods of control.

25 What is variation ? Explain the types and sources of variation.

26 Define population. Describe the characteristics of a population.

(2 × 10 = 20 marks)