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B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2015

Second Semester

Core Course 2-BIODIVERSITY AND MODERN SYSTEMATICS

(Common for B.Sc. Zoology Model I, B.Sc. Zoology Model II, B.Sc. Industrial Microbiology and Zoology)

[2013 Admission onwards]

Time: Three Hours

Maximum: 60 Marks

Part A (Short Answer Questions)

Answer all questions. 1 mark each.

- 1. Define 'Ecosystem".
- 2. There are so many species on earth, why will it matter if we lose a few?
- 3. What is meant by invasive species?
- 4. Define the term pollution.
- 5. What is IUCN?
- 6. What is meant by "In situ" conservation?
- 7. What is ICZN?
- 8. Define the term "molecular taxonomy".

 $(8 \times 1 = 8)$

Part B (Brief Answer Questions)

Answer any six questions. 2 marks each.

- 9. What are the threats to Biodiversity?
- 10. Explain the salient features of environmental protection act 1986.
- 11. Discuss the role of UNEP in biodiversity conservation.
- 12. Briefly explain Linean hierarchy.
- 13. Briefly explain the achievements of Rio Summit.
- 14. Differentiate between genetic diversity and species diversity.
- 15. What is a Sanctuary? Give examples.
- 16. Explain Shannon-Weiver diversity index.

Turn over

- 17. What is dichotomous key?
- 18. What is WCMC? Explain.

 $(6 \times 2 = 12)$

Part C (Problems/Derivations)

Answer any four questions. 4 marks each.

- 19. Explain the importance of classification.
- 20. Explain the sampling techniques for biodiversity estimation.
- 21. Explain the criteria for attributing Hot Spot status to an area.
- 22. Explain the concept of Modern Taxonomy.
- 23. Explain Microbial Diversity.
- 24. Explain the biodiversity in the polar region.

 $(4 \times 4 = 16)$

Part D (Long Answer/Problem Questions)

Answer any two questions. 12 marks each.

- 25. Briefly explain the values of biodiversity.
- 26. Write an essay on biodiversity hot spots in India.
- 27. Explain the biodiversity conservation strategies.
- 28. Write an essay on Zoological Nomenclature.

 $(2 \times 12 = 24)$