

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

FIRST SEMESTER – APRIL 2010

**ZO 1814 - ANIMAL DIVERSITY AND BIOSYSTEMATICS**

Date & Time: 27/04/2010 / 1:00 - 4:00

Dept. No.

Max. : 100 Marks

**PART A**

**Answer ALL the questions**

**10 x 2 = 20 Marks**

1. What are synthetic, analytical and biological phases in taxonomy?
2. Differentiate taxonomy from systematics.
3. Interbreeding is essential for species composition – Justify
4. Differentiate allopatric species from sympatric species.
5. Comment on the types of nomenclature.
6. Expand : IUCN, ZSI, BSI and ICZN
7. Mention the role of cryopreservation in Biodiversity Conservation with examples.
8. Who is a conservator? Mention his responsibilities.
9. What is *in situ* and *ex situ* conservation of biodiversity?
10. What are wetlands? Mention their ecological importance.

**PART B**

**Answer any FOUR**

**4 x 10 = 40 Marks**

11. Taxonomy makes a big profession in biology – Elaborate. And mention the aims and tasks of taxonomists.
12. Write a comprehensive account on the rise of taxonomy.
13. Write notes on zoological classification.
14. Evaluate the merits and demerits of Wildlife Protection Act 1972.
15. Explain the productivity of rain forests.
16. Explain the need for environmental ethics for better conservation of biodiversity.

**PART C**

**Answer any TWO**

**2 x 20 = 40 Marks**

17. Taxonomy provides platform for holistic understanding of biodiversity – Substantiate.
18. Construction of varied taxonomic keys involves inputs from all branches of biology.
19. Coral reefs are boon to marine productivity – How? Discuss the varied threats to their diversity.
20. Form an essay on the Biosphere Reserves and Protected Areas in India.

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