 LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

 **M.Sc.** DEGREE EXAMINATION - **ZOOLOGY**

FIRST SEMESTER – APRIL 2011

# ZO 1814 - ANIMAL DIVERSITY AND BIOSYSTEMATICS

 Date : 18-04-2011 Dept. No. Max. : 100 Marks

 Time : 9:00 - 12:00

**Part A (Answer ALL) 10 x 2 = 20 Marks**

1. What is called a ‘taxon’?
2. Define “Biodiversity Hotspots”.
3. What is called an ‘Allotype’?
4. Mention the benefits of pictorial key.
5. Differentiate allopatric species from sympatric species.
6. What is systematics?
7. Comment on “lagoons”.
8. What is called a sibling species?
9. Write a note on “Systema naturae”.
10. Mention the importance of wetlands.

**Part B (Answer ANY FOUR) 4 x 10 = 40 Marks**

1. Explain the stratification of marine ecosystem.
2. Write an account on “Wild Life Protection Act 1972”.
3. Explain the problems of taxonomists.
4. Briefly explain the advantages of rain forests.
5. Write an account on species concepts.
6. Write an account on taxonomic keys.

**Part C (Answer ANY TWO) 2 x 20 = 40 Marks**

1. Discuss issues related to the conservation of Indian Biodiversity
2. Form an essay on ecosystems of India.
3. Discuss in detail the applications of taxonomy.
4. Explain the different approaches to taxonomy.

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