



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – NOVEMBER 2011

ZO 1814 - ANIMAL DIVERSITY AND BIOSYSTEMATICS

Date : 03-11-2011

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

Section – A

Answer **ALL** questions.

10 x 2 = 20 Marks

1. Define “nomenclature” and mention the types.
2. Comment on “Starting point of nomenclature”.
3. Write a note on “Biological Control”.
4. Mention the importance of SEM and TEM in taxonomy.
5. Comment on “Phylogenetic tree”.
6. Differentiate Ideogram from Karyotype and mention their importance in taxonomy.
7. List down the characteristics of Lagoons and Estuaries.
8. Differentiate “Vulnerable species” from “Endangered species”.
9. Mention the importance of wetlands.
10. Mention any four adaptive features of animals of lotic and lentic environment.

Section – B

Answer any **FOUR** of the following

4 x 10 = 40 Marks

11. Elaborate the objectives and challenges of a taxonomist.
12. Explain briefly the rise of taxonomy as a field of science.
13. Enumerate points on the importance of taxonomy and its stages.
14. Write an account on biodiversity assessment.
15. Explain the role of biotechnology in the conservation of natural resources.
16. Elaborate the recommendations of Kyoto protocol.

Section – C

Answer any **TWO** of the following

2 x 20 = 40 Marks

17. Write an essay on species concepts.
18. Discuss the applications of taxonomy.
19. Write an account on the following
 - (a) Environmental ethics
 - (b) National Environmental Policy
20. Discuss the constituents of the Indian Wildlife Protection Act 1972.
