

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2009

ZO 1814 - ANIMAL DIVERSITY AND BIOSYSTEMATICS

Date & Time: 06/11/2009 / 1:00 - 4:00 Dept. No.

Max. : 100 Marks

PART A

Answer ALL the questions

10 x 2 = 20 Marks

1. Differentiate alpha taxonomy from gamma taxonomy
2. Comment on the problem of sibling species in pest control.
3. Systematics is part of Taxonomy – Justify.
4. What is speciation? Mention the factors responsible for speciation.
5. Differentiate ideogram from karyotype.
6. Mention the responsibilities of wildlife warden.
7. Expand : WWF, BNHS, FAO and CITES.
8. Comment on GENBANK.
9. Differentiate Reserve forest from Biosphere Reserve.
10. Recommend your strategies for Biodiversity Conservation.

PART B

Answer any FOUR

4 x 10 = 40 Marks

11. Taxonomy has always been a difficult task to taxonomists – Elaborate.
12. Enumerate the concepts of species.
13. Write an account on reference works in taxonomy.
14. India is blessed with immense ecosystem, species and genetic diversity – Substantiate.
15. Write notes on the adaptations of lentic and lotic animals.
16. Elaborate the recommendations of Kyoto Protocol.

PART C

Answer any TWO

2 x 20 = 40 Marks

17. Discuss the applications of taxonomy in theoretical and applied biology.
18. Explain the newer trends in taxonomy.
19. Form an essay on taxonomic collections and identification.
20. Discuss the role of biotechnology in the conservation of biodiversity.
