



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – APRIL 2014

ZO 1819/1813 - PHYLOGENY OF INVERTEBRATA & CHORDATA

Date : 29/03/2014
Time : 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. Write notes on: (a) Ganoid Scales (b) Quill Feathers
2. Write the Dental Formulae of the following: (a) Rat (b) Rabbit
3. Write a note on hyoid apparatus.
4. Explain the Pathogenicity of the following: (a) Plasmodium vivax (b) Ascaris lumbricoides
5. Give the Zoological Terms of the following: (a) Pigeon (b) Peacock
6. Define the following: (a) Morphallaxis (b) Heteromorphosis
7. Distinguish mutualism from commensalism
8. Write short notes on: (a) Electric organs (b) Synsacrum
9. Define: (a) Apiculture (b) Sericulture.
10. Mention any four affinities of Hemichordates.

PART-B

Answer any FOUR questions

(4x10 = 40 Marks)

11. Write a paragraph on the Larval Forms of Echinoderms.
12. Give an account of the Origin, Ancestry and Evolution of Birds and Mammals with reference to Geological Time Scale.
13. What is Minor phyla? Explain in detail the Minor phyla-Pogonophora
14. Write the phylogenetic significance of locomotory organs of Invertebrates.
15. Briefly explain the migration of Birds.
16. Describe the life cycle of *Entamoeba histolytica* and elaborate its pathogenicity.

PART-C

Answer any TWO questions

(2x20 = 40 Marks)

17. Give an account on the arterial systems of various Invertebrates.
18. What are Ostracoderms? Classify and explain the Origin and Evolution of Ostracoderms.
19. Write an essay on Apiculture and Sericulture.
20. Describe the following:
(a) Flight muscles of birds (b) Affinities of cephalochordates (c) Adaptive radiation of fishes.
