



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – NOVEMBER 2013

ZO 1819 - PHYLOGENY OF INVERTEBRATA & CHORDATA

Date : 05/11/2013
Time : 1:00 - 4:00

Dept. No.

Max. : 100 Marks

Part A

(10×2=20)

Answer **ALL** questions.

1. Write the dental formulae of Cat and Elephant.
2. What are carapace and plastron?
3. Explain polymorphism with a suitable example.
4. Give the Zoological names of Man and Tiger.
5. What is pigeon's milk?
6. Mention any two significance of synsacrum.
7. Distinguish metamerism from cephalization.
8. What are flame cells?
9. Mention the disease caused by *Plasmodium* and *Trypanosoma*.
10. Define living fossils with suitable examples.

Part B

(4×10=40)

Answer any **FOUR** questions.

11. Classify placenta based on histology with suitable examples.
12. Give an account of the minor phylum Rotifera and draw its evolutionary significance.
13. Explain the parasitic adaptations in *Plasmodium*.
14. What is a geological time scale explain the origin ancestry and evolution of chordates?
15. Explain Urochordates and add notes on their affinities.
16. Give a comparative account of the heart of invertebrates and chordates and highlight their evolutionary significance.

Part C

(2×20=40)

Answer any **TWO** questions.

17. What are Placoderms? Give an account of origin, ancestry and evolution of Placoderms.
18. Write a comparative account of exoskeleton in invertebrates and chordates and bring out their evolutionary significance.
19. Give an account of migration in birds and elaborate the reasons for migration.
20. Explain the social life of Termites.
