



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2014

ZO 1819 - PHYLOGENY OF INVERTEBRATA & CHORDATA

Date : 31/10/2014
Time : 01:00-04:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions:

(10×2=20 Marks)

1. Give the dental formulae of the following
a) Dog b) Rat
2. Write the Zoological name of the following
a) Camel b) Shark
3. What is pigeon's milk?
4. Distinguish heterocercal tail from reversed heterocercal tail.
5. Write a note on placoid scales
6. Differentiate Quil from Filoplume feathers.
7. Differentiate enterocoelic coelom from schizocoelic coelom.
8. What is paleontological question mark?
9. What is ductus caroticus?
10. Mention any four affinities of Urochordates.

Part-B

Answer any FOUR questions:

(4×10=40 Marks)

11. Give an account of the origin and evolution of chordates.
12. Discuss in detail the affinities of cephalochordates.
13. Give an account of the morphology of Rotifer.
14. Explain the pathogenicity, control, treatment and causes of the parasite *Entamoeba*.
15. Write notes on the flight muscles of birds.
16. Compare and contrast the respiratory system of invertebrates and chordates bringing in the evolutionary significance.

Part-C

Answer any TWO questions:

(2×20=40 Marks)

17. Write an essay on Ostracoderms and explain the evolution of Agnatha.
18. Give a comparative account on the heart of invertebrates and chordates and highlight the phylogeny.
19. Write an essay on the Life cycle, Pathogenicity and Control of *Trypanosoma* and *Ascaris*.
20. Give an account on the adaptive radiation of Birds.
