



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – APRIL 2013

ZO 1813/1819 - PHYLOGENY OF INVERTEBRATA AND CHORDATA

Date : 27/04/2013
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer All the questions

(10×2=20 Marks)

1. What is paleontological question mark?
2. Give the dental formulae of the following
a) Cow b) Cat
3. Write the Zoological names of the following
a) Man b) Pigeon
4. Distinguish adaptation from adaptive radiation.
5. Write short notes on cycloid and ganoid scales.
6. Differentiate Down and contour feathers
7. Classify placenta based on implantation.
8. What is ductus quiveri?
9. Name any two flight muscles of birds.
10. What is cephalization?

Part-B

Answer any FOUR questions

(4×10=10 Marks)

11. Give an account of the origin and ancestry and evolution of invertebrates with reference to geological time scale.
12. Describe the life cycle and of *Taenia solium*.
13. Give an account of the morphology of Pogonophora.
14. Explain the pathogenecity, control, treatment and causes of the parasite Ascaris.
15. Write notes on migration of birds.
16. Describe metamerism in animals.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Write an essay on Ostracoderms and explain in detail the evolution of Agnatha.
18. Give a comparative account of the respiration in invertebrates and chordates and highlight the phylogeny.
19. Write notes on the locomotory organs of invertebrates.
20. Write an essay on the adaptive radiation of Mammals.
