LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER - APRIL 2010

ZO 1813 - PHYLOGENY OF INVERTEBRATA AND CHORDATA

Date & Time: 24/04/2010 / 1:00 - 4:00 Dept. No. Max. : 100 Marks

PART A

Answer ALL the Questions

10 X 2 = 20marks

- 1. Write the zoological names of pigeon, horse, tiger and man.
- 2. Give the dental formulae of: rabbit, man, camel and squirrel.
- 3. Write short notes on flame cells.
- 4. Define Cephalisation and Metamerism.
- 5. What is commensalism?
- 6. What are somatopleure and splanchnopleure?
- 7. What are (a) Apiculture (b) Osmosis.
- 8. Write a short note on inter and intraspecific relationship.
- 9. Define Hermaphroditism and Paedogenesis.
- 10. Mention Give any two economic importance of mollusks.

PART-B

Answer any FOUR

4 X 10 = 40marks

- 11. Give an account of adaptive radiation in amphibians.
- 12. Explain the affinities and systematic position of Rotifera.
- 13. Give a detailed account of oyster culture.
- 14. Give an account of exoskeleton of mammals.
- 15. Classify placenta based on histology.
- 16. Write an account on the pathogenicity of *Taenia solium*.

PART-C

Answer any **TWO**

2 X 20 = 40marks

- 17. (a) What are placoderms? (3 marks)
 - (b) Explain the origin, classification and evolution of Agnatha. (3+4+10 marks)
- 18. Give an account of larvae of echinoderms and crustaceans. (10+10 marks)
- 19. Explain the structural, functional modifications and parthogenecity of *Plasmodium* and *Trypanosoma*. (10+10 marks)
- 20. (a) What is phylogeny? (3 marks)
 - (b) Compare the urinogenital system of invertebrates and chordates and bring out the phylogenetic significance. (5+5+7Marks).
