



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION - ZOOLOGY

FIRST SEMESTER – NOVEMBER 2011

ZO 1813 - PHYLOGENY OF INVERTEBRATA AND CHORDATA

Date : 01-11-2011

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

Part-A

Answer ALL the questions. Each question carries TWO marks.

(10 × 2 = 20 Marks)

1. Give the dental formulae of Elephant and Man.
2. Write the Zoological terms of the following
a) Tiger b) Crow c) Peacock d) Man
3. Write about any two Parasites and their Causative agents.
4. Distinguish adaptation from adaptive radiation.
5. Write short notes on Bipinnaria larva of star fish.
6. What is a paleontological question mark?
7. Define the following a) Pisciculture b) Sericulture
8. What is eviscerate? Explain with an example.
9. Distinguish mutualism from commensalism.
10. Planaria is immortal under the edge of the knife-Justify.

Part-B

Answer any FOUR questions. Each question carries TEN marks.

(4 × 10 = 40 Marks)

11. Give an account of the Affinities of the minor phyla Nemertea.
12. Explain the process of Adaptive radiation in birds and mammals.
13. Write a paragraph on the Life cycle of *Entamoeba histolytica*.
14. What is geological time scale? Explain the origin ancestry and evolution of chordates.
15. Explain the culturing techniques of Prawn.
16. Elaborate the flight adaptations of birds.

Part-C

Answer any TWO questions. Each question carries TWENTY marks.

(2 × 20 = 40 Marks)

17. Write an essay on the Origin, ancestry, evolution and Classification of Ostracoderms.
18. Give a comparative account of the respiratory system of invertebrates and chordates.
19. Explain the structure and types of Placenta in Mammals.
20. What are minor phyla? Explain any two minor phyla elaborating their significance.
