



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2016

16PZO1MC01 - PHYLOGENY OF INVERTEBRATA AND CHORDATA

Date: 02-11-2016

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART – A

Answer ALL the questions

(10 x 2 = 20 marks)

1. Define metagenesis.
2. Differentiate locomotion and movement.
3. How is body temperature maintained and regulated in a mammal?
4. Write the dental formulae of camel and man.
5. Define radial symmetry with a suitable example.
6. Write the functions of lymphatic system.
7. Give the Zoological names of Tiger and crow.
8. Define enterocoel theory.
9. Differentiate microphagy and macrophagy.
10. What is the function of spiracles.

PART – B

Answer any FOUR questions

(4 x 10 = 40 marks)

11. What is a geological time scale ? Explain the origin ancestry and evolution of chordates.
12. Differentiate Pseudocoelomate and coelomates with suitable examples.
13. Give an account on triploblastic structure in flatworms.
14. Discuss on the different types of respiratory pigments.
15. Explain the organisation of unicellular with examples.
16. Explain the structure of cardiac muscles.

PART – C

Answer any TWO questions

(2 x 20 = 40 marks)

17. Explain the characteristic feature and organization of coelenterate.
18. Describe the mechanism of respiration in aves and reptiles.
19. Write a brief account of physiology of digestion in vertebrates.
20. Explain the comparative anatomy of the heart and arteries of representative vertebrates.
