



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – APRIL 2017

16PZO1MC01- PHYLOGENY OF INVERTEBRATA AND CHORDATA

Date: 02-05-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL the questions

(10 x 2 = 20 marks)

1. Define pedogenesis.
2. Differentiate cilia from flagella.
3. Write the dental formulae of dog and rabbit.
4. Differentiate open and closed circulation.
5. Define bilateral symmetry with a suitable example.
6. Give the Zoological names of camel and crow.
7. Write the functions of lymphatic system.
8. Define cephalisation.
9. Distinguish systole from diastole.
10. What is Synsacrum ?

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 invertebrates.
12. What do you understand by the external and internal respiration?
13. Differentiate acoelomate and coelomates with suitable examples.
14. Give an account on triploblastic structure of roundworms.
15. Explain the organisation of multicellular organisms with examples.
16. Elaborate dentition in mammals.

PART – C

Answer any TWO questions

(2 x 20 = 40 marks)

17. Write a brief account of physiology of digestion in vertebrates.
18. Describe the regenerative mechanism in invertebrates.
19. Write a brief account of the physiology of symbiotic digestion in ruminants.
20. Explain placentation in mammals. Add its significance.
