



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – ZOOLOGY**

**FIRST SEMESTER – NOVEMBER 2017**

**17PZO1MC01 - PHYLOGENY OF INVERTEBRATA AND CHORDATA**

Date: 02-11-2017  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**Section – A**

**Answer ALL the questions**

**(10 x 2 = 20)**

1. What is the function of spiracles?
2. Define Haemocoel
3. Distinguish between cilia from flagella.
4. Define ecdysis.
5. Comment on Protonephridia
6. Define Cephalization.
7. What is Schizocoelom?
8. Define Tagmatization.
9. Give an importance of Pinocytosis
10. Write the dental formulae of dog and horse.

**Section- B**

**Answer any FOUR questions**

**(4 x 10 = 40)**

11. Describe the evolutionary perspective of the triploblastic coelomate Organisation.
12. Respiration cycle in the birds with illustration.
13. Illustrate and explain theory, metamerism & evolutionary importance in annelids.
14. Explain types and mode of nutrition in animal with illustration.
15. Draw Phylogenetic tree of body plans of modern invertebrates and chordates.
16. Comment on: A) Physiology of digestion in amoeba **OR** B) blood vascular system in cockroach.

**Section – C**

**Answer any TWO questions**

**(2 x 20 = 40)**

17. Explain the classification of phylum Porifera with suitable examples.
18. Elaborate the comparative anatomy of heart and evolution of aortic arches in vertebrates
19. Discuss the cellular mechanism, external and internal respiration process in human.
20. Explain the diversity of animal kingdom with illustration.

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