

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2019

PZO 1501 – PHYLOGENY OF INVERTEBRATA AND CHORDATA

Date: 30-10-2019

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

Section - A

Answer ALL the questions

(10 x 2 = 20)

1. Define Holotrichous.
2. Enumerate the canal system in porifera.
3. Define Haemocoel.
4. Comment on Triploblastic Organisation in human.
5. Define Cephalization.
6. Differentiate between the effective stroke and recovery stroke.
7. What is flame cell?
8. Define Tagmatization.
9. Give an importance of Pinocytosis.
10. Distinguish aphasmda from phasmida.

Section- B

Answer any FOUR questions

(4 x 10 = 40)

11. Describe the evolutionary perspective of the triploblastic coelomate Organisation.
12. Explain and illustrate the process of respiration in birds.
13. Explain the theories of metamerism and analyse its evolutionary importance in annelids.
14. Explain types and mode of nutrition in animal with illustration.
15. Draw Phylogenetic tree of body planes of modern invertebrates and chordates.
16. Explain the physiology of digestion in amoeba.

Section – C

Answer any TWO questions

(2 x 20 = 40)

17. Explain the classification of phylum protozoa with suitable examples with illustration.
18. Elaborate on 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.
