



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

FIRST SEMESTER – NOVEMBER 2017

16PZO1MC01 - 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. Distinguish between cilia from flagella.
2. Define ecdysis.
3. Comment on Protonephridia
4. What is Schizocoelom?
5. Define cephalization
6. Define Tagmatization.
7. Given an importance of Pinocytosis
8. Write the dental formulae of dog and horse.
9. Define radial symmetry with a suitable example.
10. Define Cladogram.

Section- B

Answer any FOUR questions

(4 x 10 = 40)

11. Discuss the cutaneous respiration in frog & earthworm and add its evolutionary significance.
12. Describe the evolutionary perspective of the triploblastic coelomate Organisation.
13. Explain the types of air sacs and the respiration process in birds.
14. Illustrate and explain theory, metamerism & evolutionary importance in annelids.
15. Explain types and mode of nutrition in animal with illustration.
16. Explain the physiology of digestion in amoeba.

Section – C

Answer any TWO questions

(2 x 20 = 40)

17. Elaborate the comparative anatomy of heart and evolution of aortic arches in vertebrates
18. Discuss the cellular mechanism, external and internal respiration process in human.
19. How does cell differentiation lead to the organization within a multicellular organism?
20. Explain the classification of phylum protozoa with suitable examples with illustration.

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