



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

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

FIRST SEMESTER – NOVEMBER 2016

**ZO 1819 - PHYLOGENY OF INVERTEBRATA & CHORDATA**

Date: 02-11-2016  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

**PART – A**

**Answer ALL the questions**

**(10 x 2 = 20 marks)**

1. Define symmetry with suitable examples
2. Give an account on inter-relationship between annelida and arthropoda
3. Write a short notes on *archopterix*
4. Give the dental formulae of the following : a) Man b) Dog
5. Write the Zoological name of the following: a) Camel b) Crow
6. Differentiate *enterocoelic* coelom from *schizocoelic* coelom
7. What is *ductuscaroticus*?
8. Mention any four affinities of prochordates
9. Explain *Megalopae*
10. Differentiate quill from filoplume feathers

**PART – B**

**Answer any FOUR questions**

**(4 x 10 = 40 marks)**

11. Give an account of the origin and evolution of vertebrates
12. Discuss in detail the affinities of placoderms
13. Give a comparative account on the brain and heart in vertebrates.
14. Describe the pathogenicity and parasitic adaptations seen in *Fasciola*
15. Explain the urinogenital systems of *invertebrates*
16. Discuss on affinities and systematic position of minor phyla *nemertinea*

**PART – C**

**Answer any TWO questions**

**(2 x 20 = 40 marks)**

17. Write an essay on *ostracoderms* and explain the evolution of *agnatha*
18. Give a comparative account on the nervous system of *invertebrates* and *chordates*  
. Highlight the phylogeny
19. Write an essay on the life cycle, pathogenicity and control of *echinococcus* and *trypanosome*
20. Give an account on the adaptive radiation of Fishes and amphibians.

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