

15101

M.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

FIRST SEMESTER

Zoology

Paper I — STRUCTURAL ANATOMY OF INVERTEBRATA AND VERTEBRATA

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. International code of zoological nomenclature.
2. Acoelomata.
3. Circulatory system in Annelids.
4. Structure of lungs.
5. Horns, nails.
6. Function of Skin
7. Spinal cord.
8. Organs of olfaction.

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Explain the patterns, of feeding and digestion in Porifera and Coelenterata.

Or

10. Describe the feeding in polychaeta and echinodermata.
11. Explain the advanced nervous system in Annelida, Arthropoda.

Or

12. Describe the larval forms of crustaceans and Echinodermata.

13. Write an essay on evolution of aortic arches.

Or

14. Write an essay on comparative account of respiratory organs.

15. Give a detailed account of cranial nerves.

Or

16. Describe the comparative anatomy of the brain in relation to its functions.

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