

AS/2110

B.Sc. Semester I
ZOOLOGY

5198/NH

Paper : I Non Chordates

Time Allowed: Three Hours

Maximum Marks: 40

Note: - Attempt five questions in all. Section C is compulsory. Select two questions from Section A and two questions from Section B. Draw diagrams wherever necessary.

SECTION-A

1. Describe Life cycle, and pathogenicity and control measures of *Ascaris lumbricoides*. 6
2. Give an account of
 - a. Metamerism in Annelida
 - b. Evolution of coelom. 3,3
3. Explain canal system in sponges with well labelled diagram. 6
4. Describe
 - a. Affinities of *Peripatus*
 - b. Parasitic adaptations in helminthes 3,3

SECTION-B

5. Give an account of
 - A. Echinoderm larvae
 - B. Torsion in Gastropoda
6. Discuss
 - A. Social life in Termite
 - B. Metamorphosis in Lepidopteran Insects 3,3
7. Describe mechanism of respiration in Prawn. 6
8. Describe general characteristics of *Balanoglossus* and its external characters and affinities. 6

SECTION-C

9. Write short note on the following:

1. Nephridia
2. Conjugation
3. Parasitic adaptations
4. *Wuchereria bancrofti*
5. Coral reef Conservation
6. Polymorphism
7. General characteristics of *Balanoglossus*
8. Spicules of sponges

8X2=16