

B.Sc. (Honours) Examination, 2019

Semester–II(CBCS)

Zoology

Course – CC-3

(Non-Chordate-II: Coelomates)

Time: Three Hours

Full Marks: 40

Questions are of value as indicated in the margin.

Answer *any five* questions.

1. What is coelom? Describe different types of coelom with neat diagram. Differentiate between schizocoelomates and enterocoelomates. 1+6+1=8
 2. Why is Temite called a social insect? Describe the different castes found in a colony with diagram. Mention the specific functional role of each caste. 2+4+2=8
 3. Describe the general characteristic features of the Phylum Athropoda. Classify it upto sub-phylum. Give an account on the salient features of each Sub-phylum with suitable examples. 2+2+4=8
 4. What are the different modes of respiration in Mollusca? Provide example. Describe the structure of amolluscanctenidia with suitable diagram. 1+1+6=8
 5. Describe briefly the general characteristic features of the Phylum Mollusca. Give a comparative account on the characters of Gastropoda and Cephalopoda. Add a note on pearl formation in bivalves. 2+3+3=8
 6. Describe with suitable diagram the water vascular system in *Asteriassp.* Add a note on the importance of podia in locomotion. (2+4)+2=8
 7. Write short notes on *two* of the following: 4×2=8
 - (a) Affinities of *Peripatussp.*
 - (b) Specific characters of different classes of Annelida.
 - (c) Endoskeleton in echinoderms.
 - (d) The phylogenetic importance of echinoderm larvae.
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