



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 2nd Semester Examination, 2023
ZOOACOR03T-ZOOLOGY (CC3)

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.

1. Answer any **eight** questions from the following: 2×8 = 16
- What is Parapodia?
 - What do you mean by Ecdysis?
 - State two differences between homonomous metamerism and heteronomous metamerism.
 - What is haemocoel?
 - What is nacreous layer?
 - What is Royal jelly?
 - What is Organ of Bojanus?
 - What is Tiedemann's body?
 - What is Polian Vesicle? Write its function.
 - What is ommatidium?
 - State the differences between Taenidia and Ctenidia.
 - What is Solenocytes? Mention its function.
2. Answer any **three** questions from the following: 3×3 = 9
- To which phylum does the following structures belong and mention one function of each
(i) Tube feet (ii) Nephrostome (iii) Proboscis
 - Briefly illustrate the division of labour found in different castes in honey bee.
 - Draw and describe the structure of a typical nephridia.
 - Mention the annelid characters of *Peripatus* sp.
 - State the general characteristic features of Trochophore larva.
3. Answer any **three** questions from the following: 5×3 = 15
- Name the Phylum and Class of the following animals —
(i) Sea-Urchin (ii) Sea-Mussel (iii) Silver Fish (iv) Sea Mouse (v) *Buthus* sp.
 - Write short notes on any **two** of the following: 2½ × 2 = 5
 - Bee dance
 - Trachea of insect
 - Superposition Image.
 - Classify Phylum Mollusca upto class with suitable examples.
 - (i) What is the mechanism of natural pearl formation? 3+2
(ii) Explain the process of detorsion in gastropods.
 - Briefly describe the structure of Auricularia larva with suitable diagram.

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