



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
 - (a) What is Parapodia?
 - (b) What do you mean by Ecdysis?
 - (c) State two differences between homonomous metamerism and heteronomous metamerism.
 - (d) What is haemocoel?
 - (e) What is nacreous layer?
 - (f) What is Royal jelly?
 - (g) What is Organ of Bojanus?
 - (h) What is Tiedemann's body?
 - (i) What is Polian Vesicle? Write its function.
 - (j) What is ommatidium?
 - (k) State the differences between Taenidia and Ctenidia.
 - (l) What is Solenocytes? Mention its function.

2. Answer any **three** questions from the following: 3×3 = 9
 - (a) To which phylum does the following structures belong and mention one function of each
 - (i) Tube feet
 - (ii) Nephrostome
 - (iii) Proboscis
 - (b) Briefly illustrate the division of labour found in different castes in honey bee.
 - (c) Draw and describe the structure of a typical nephridia.
 - (d) Mention the annelid characters of *Peripatus* sp.
 - (e) State the general characteristic features of Trochophore larva.

3. Answer any **three** questions from the following: 5×3 = 15
 - (a) Name the Phylum and Class of the following animals —
 - (i) Sea-Urchin
 - (ii) Sea-Mussel
 - (iii) Silver Fish
 - (iv) Sea Mouse
 - (v) *Buthus* sp.
 - (b) Write short notes on any **two** of the following: 2½ × 2 = 5
 - (i) Bee dance
 - (ii) Trachea of insect
 - (iii) Superposition Image.
 - (c) Classify Phylum Mollusca upto class with suitable examples.
 - (d) (i) What is the mechanism of natural pearl formation? 3+2
 (ii) Explain the process of detorsion in gastropods.
 - (e) Briefly describe the structure of Auricularia larva with suitable diagram.

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