

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 2nd Semester Examination, 2022

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:

 $2 \times 8 = 16$

- (a) What is chiastaneury?
- (b) What is coelom? Name one pseudocoelomate animal.
- (c) Write the functions of radula and osphradium.
- (d) Mention two functions of worker bees in a honey comb.
- (e) Write two similarities of Phylum Hemichordata with Phylum Annelida.
- (f) Write two characters of Bipinnaria larva of Phylum Echinodermata.
- (g) Mention the function and location of tubefeet.
- (h) What is madreporite? State its function.
- (i) What is Parapodia? Where is it found?
- (j) What is ink gland? State its function.
- (k) What is metamere? Name an animal which shows true metamerism.
- (l) Define a metabolous metamorphosis in insects. Give example.
- 2. Answer any *three* questions from the following:

 $3 \times 3 = 9$

- (a) To which Phylum does the following structures belong and mention one function of each
 - (i) Clitellum (ii) Malpighian tubules (iii) Ctenidia
- (b) State the general characteristic features of Phylum Onychophora.
- (c) Compare between Schizocoelous and enterocoelous mode of coelom formation.
- (d) Draw a labelled diagram and write the salient features of Pluteus larva.

1+2

- (e) State the advantages and disadvantages of torsion in Gastropods.
- 3. Answer any *three* questions from the following:

 $5 \times 3 = 15$

- (a) Name the Phylum and class of the following animals—
 - (i) Sea cucumber (ii) King crab (iii) Devil fish (iv) Saccoglossus sp.
 - (v) Hirudinaria sp.

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(b) Write short notes on any *two* of the following:

 $2\frac{1}{2} \times 2 = 5$

- (i) Holometabolous metamorphosis of insects
- (ii) Reproductive caste of termites
- (iii) Protonephridia
- (c) Describe the structure associated with aquatic respiration in mollusca with suitable diagram.

(d) Describe the structure of water vascular system of *Asterias* sp. with a suitable diagram.

3+2

3+2

- (e) Classify Phylum Annelida up to class with suitable examples.
 - **N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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