



WEST BENGAL STATE UNIVERSITY

B.Sc. Major 1st Semester Examination, 2025-26

ZOODSCN101T-ZOOLOGY (MAJOR)

DEPARTMENT OF ZOOLOGY

P. R. THAKUR GOVERNMENT COLLEGE

Thakurnagar
North 24 Parganas
PIN - 743287, West Bengal, India

Time Allotted: 2 Hours

Full Marks: 40

Students Session 2025-2026 Onwards

*The figures in the margin indicate full marks.**Candidates should answer in their own words and adhere to the word limit as practicable.**All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
 - (a) Mention two characteristic features of Phylum Apicomplexa.
 - (b) Name one Poriferan animal where spicules are absent. Mention the class in which it belongs.
 - (c) Distinguish between polyp and medusa.
 - (d) Define metagenesis.
 - (e) In which phylum do you find comb plate? Mention the function.
 - (f) What is coelom? Give example of a pseudocoelomate animal.
 - (g) Name two larvae belonging to the Phylum Platyhelminthes.
 - (h) Write the function of parapodia.
 - (i) What is ink gland? State its function.
 - (j) What is osphradium? State its function.
 - (k) What are ocelli?
 - (l) What is pneumatophore?

2. Answer any **three** questions from the following: 3×3 = 9
 - (a) Comment on the types of spicules in Porifera. 3
 - (b) Name the phylum to which the following larvae belong and write one identifying character of the identified phylum. 1+1+1
 - (i) Nauplius (ii) Amphiblastula (iii) Planula
 - (c) Compare between schizocoelous and enterocoelous mode of coelom formation. 3
 - (d) Write about the evolutionary significance of Trochophore larva. 3
 - (e) Mention the general characteristics of phylum Ctenophora. Give an example. 2+1

3. Answer any *three* questions from the following:

$5 \times 3 = 15$

(a) Write down the scientific names of the following organisms and identify the phylum to which they belong— $(\frac{1}{2} + \frac{1}{2}) \times 5$

(i) Sea fan (ii) Devilfish (iii) Slipper animalcule (iv) Horse shoe crab
(v) Earthworm.

(b) Classify Phylum Cnidaria upto classes (living) with proper example. 5

(c) Describe any two Crustacean larval forms. $2\frac{1}{2} + 2\frac{1}{2}$

(d) Discuss about the evolutionary significance of King Crab. 5

(e) Write short notes on: $2\frac{1}{2} + 2\frac{1}{2}$

(i) Syconoid canal system

(ii) General characteristics of Phylum Mollusca.

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