



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examination 2023

(Under CBCS Pattern)

Semester — II

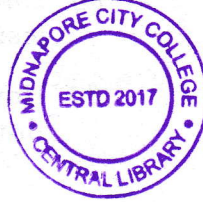
Subject : ZOOLOGY

Paper : C-3T

(Non-Chordates—II)

Full Marks : 40

Time : 2 hours



*Candidates are required to give their answers
in their own words as far as practicable.*

The figures in the margin indicate full marks.

Answer from **all** the Groups as directed.

GROUP—A

1. Answer **any five** questions : $2 \times 5 = 10$

(c) Differentiate between commissure and connectives.

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(Turn Over)



(2)

- (b) Name two larval forms of crustacea.
- (c) What is chloragogen cell?
- (d) What do you mean by eusocial insect? Give example.
- (e) Distinguish between schizocoelic and enterocoelic coelom?
- (f) What is stomochord? Where is it found?
- (g) Differentiate apposition from superposition vision in insects.
- (h) How will you differentiate a moth from a butterfly?

GROUP—B

Answer any four questions : 5×4=20

2. Describe the role of hormone in insect metamorphosis. Give example. 5
3. Describe the digestive system of *Pila* Sp with diagram. 3+2=5
4. Write down the affinities of Onychophora with Annelida and Arthropoda. 5
5. Describe the structure of gill in prawn with diagram. 3+2=5

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(Continued)

(3)

6. Describe the salient features of Hemichordata. State the importance of tornaria larva. 3+2=5
7. Describe the structure of nephridia in earthworm with diagram. 3+2=5

GROUP—C

Answer any one question : 10×1=10

8. Write down the systematic position upto class with reasons : 2½×4=10
Nereis Sp., *Limulus* Sp., *Octopus* Sp., *Echinus* Sp.
9. What is water vascular system? Describe the water vascular system of starfish with suitable diagram. Write the functions of water vascular system. 2+(4+2)+2=10

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