



NTK/KW/15 - 5801

Second Semester B. Sc. Examination

ZOOLOGY

Paper - I

[Life and Diversity of Animals-Nonchordates]

(Arthropoda to Hemichordata)

Time : Three Hours]

[Max. Marks : 50

- N. B. : (1) All questions are compulsory.
(2) All carry equal marks.
(3) Draw well labelled diagrams wherever necessary.

1. Describe the female reproductive system of Cockroach. 10

OR

Write Notes on :—

- (A) Social behavior in Honeybee. 5
(B) House fly. 5

2. Describe the digestive system of Pila. 10

OR

Write Notes on :—

- (A) Glochidium larva. 5
(B) Natural Pearl formation in Mollusca. 5

3. Describe the water vascular system in starfish. 10

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Contd.



OR

Write Notes on :—

- (A) Bipinnaria larva. 5
(B) External features of starfish. 5

4. Describe Reproduction in **Balanoglossus** and Add Note on Development of Tornaria Larva. 10

OR

Write Notes on :—

- (A) Draw well labelled diagram of T.S. **Balanoglossus** through Proboscis. 5
(B) Chordate Affinities of **Balanoglossus**. 5

5. Write **four** or **five** lines on any **Ten** of the following :—

- (I) Gizzard.
(II) Maxilla.
(III) Salivarium.
(IV) Gill Lamella.
(V) Mantle.
(VI) Veliger Larva.
(VII) Stone canal.
(VIII) Ambulacral groove.
(IX) Podium.
(X) Stomochord.
(XI) Metacoel.
(XII) Gill Slits.

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