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- (b) What is Mosaic vision? Describe the functioning of compound eye of Arthropods in different intensities of light. (9+6)
6. Write short notes on the following: (15)
- (a) Evolutionary significance of Onychophora
- (b) Types of metamorphosis
- (c) General characteristics of Mollusca

(1000)

[This question paper contains 4 printed pages.]

26 JUL 2023

Your Roll No.



Sr. No. of Question Paper : 1209

Unique Paper Code : 2232011201

Name of the Paper : Non-Chordata: Coelomates

Name of the Course : B.Sc. (H) Zoology- UGCF

Semester : II

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
 2. Answer any **FOUR** questions in all.
 3. **Question No. 1** is compulsory.
 4. Draw well-labelled diagrams wherever necessary.
-
1. (i) Define the following terms (any four): (4)
 - (a) Ecdysis
 - (b) Epitoky

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- (c) Pseudo-metamerism
- (d) Ocelli
- (e) Tagmosis

(ii) Differentiate between the following (any two):
(4)

- (a) Schizocoelous and Enterocoelous
- (b) Septal and pharyngeal nephridia
- (c) Tracheal gills and book gills

(iii) Give the location and function of the following
(any four): (4)

- (a) Malphigian gland
- (b) Radula
- (c) Tiedmann's body
- (d) Statocyst
- (e) Typhlosole

(iv) Give generic of the following and classify upto
classes (any three): (3)

- (a) Brittle star

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- (b) Water flea
- (c) Clamp worm
- (d) Tusk shell

2. (a) Give an account on the social life of Honey bee
and add note on their economic importance.

(b) Describe the evolution of Metamerism.
(9+6)

3. (a) Explain the mechanism of Torsion and detorsion
in Gastropoda.

(b) Give the detailed description of excretion in
Annelida with diagrams. (9+6)

4. (a) Discuss the water-vascular system in Asteroidea
and write about its significance.

(b) Explain the process of Pearl formation in bivalves.
(9+6)

5. (a) Give the brief account on respiratory organs. in
Arthropods and discuss the mechanism of
respiration in insects.

P.T.O.