

- (b) Give an outline classification of phylum Platyhelminthes with characters and examples of each class. (6)
5. (a) Explain the course of migration of Ascaris larva within its host body. (10)
- (b) What is Parazoa? Mention its main features. (5)
6. Write short notes on **any three** of the following : (5×3=15)
- (a) Parasitic adaptations in Helminthes
- (b) Ciliary locomotion in Paramecium
- (c) Syconoid Canal System
- (d) Affinities of Ctenophora

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5758

K

Unique Paper Code : 2232011101

Name of the Paper : Non Chordata-Protista to Pseudocoelomates (DSC-1)

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

Semester : I

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. Attempt any **four** questions including Question No. 1 which is compulsory.
3. Draw well-labelled diagrams wherever necessary.

1. (i) Define the following terms (**any four**) : (4)

(a) Digenetic

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(b) Bilateral Symmetry

(c) Holozoic nutrition

(d) Pseudocoelom

(e) Metachronal rhythm

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

(a) Endomixis and Autogamy

(b) Primary host and Secondary host

(c) Dactylozooids and Gonozooids

(iii) Match the Columns : (4)

- | | |
|---------------------|----------------------|
| (a) <i>Apophyle</i> | 1) <i>Hydra</i> |
| (b) Amphids | 2) <i>Paramecium</i> |
| (c) Kappa particles | 3) Sponges |
| (d) Coelenteron | 4) Nematoda |

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(iv) Give the exact location and one function of each of the following (**any three**) : (3)

(a) Pyrenoids

(b) Penial spicules

(c) Colloblast

(d) Pneumatophore

2. (a) Explain the process of conjugation in *Paramecium*. Discuss its significance. (10)
- (b) Discuss the sol-gel theory of locomotion in *Amoeba* with the help of diagram. (5)
3. (a) Give the general characteristics of Phylum Cnidaria. (5)
- (b) Define polymorphism. Give a detailed account of polymorphism in Siphonophora and its significance. (10)
4. (a) Define corals. Explain in detail different types of coral reefs. (9)

P.T.O.