

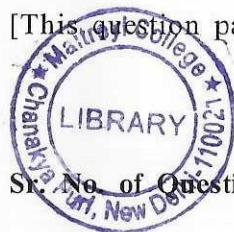
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4

5. (a) Give a detailed account of parasitic adaptations in Helminthes.
(b) Give graphic life cycle of *Taenia solium*.
(10+5)
6. Write short notes on **any three** of the following :
(15)
- (a) Course of migration of *Ascaris* larva within its host body.
(b) Coral reefs.
(c) Asexual reproduction in protozoa.
(d) Compare and contrast flatworms with roundworms.

(500)

[This question paper contains 4 printed pages.]



28.12.2023 (M)
Your Roll No.....

Sr. No. of Question Paper : 1558

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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) Osculum

P.T.O.

(b) Bilateral Symmetry

(c) Plasmotomy

(d) Ootype

(e) Kinet

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

(a) Schizogony and Sporogony

(b) Monogenea and Digenea

(c) Nematocyst and Trichocyst

(iii) Match the Columns : (4)

- | | |
|---------------------------|----------------------|
| (a) Pinacocytes | 1) <i>Hydra</i> |
| (b) Amphids | 2) <i>Ctenoplana</i> |
| (c) Comb Plates | 3) Sponges |
| (d) Gastrovascular cavity | 4) Nematoda |

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

(a) Pyrenoids

(b) Acetabulum

(c) Colloblast cells

(d) Pneumatophore

2. (a) Why man acts as primary host of *Plasmodium*? Give the illustrated account of life history of malarial parasite in man.

(b) Describe the process of conjugation in *Paramecium* and discuss its significance. (9+6)

3. (a) Give the general characteristics of Phylum Porifera.

(b) Give an account of different types of canal systems in Porifera and give its significance. (5+10)

4. (a) Describe Polymorphism in Cnidaria. Comment upon its significance.

(b) Give an outline classification of phylum Cnidaria with characters and examples of each class.

(9+6)