[This question paper contains 4 printed pages.]

Your Roll No.....

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Sr. No. of Question Paper : 1032

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.

P.T.O.

1032

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

(a) Eutely

(b) Polyembryony

(c) Cyclosis

(d) Metaboly

(e) Apolysis

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

(a) Trophocytes and Thesocytes

(b) Definitive host and Intermediate host

(c) Gonozooid and Gastrozooid

(iii) State whether following statements are true or false: (4)

(a) Malarial parasite is a digenetic organism.

(b) The totipotent cells of sponges are the archeocytes.

(c) Siphonophore cnidarians exhibit polymorphism.

(d) *Taenia solium* has a well-developed digestive system.

(iv) Give generic names of the following and classify up to class **(any three):** (3)

(a) Glass rope sponge

(b) Slipper animalcule

(c) Organ pipe coral

(d) Jelly fish

2. (a) Mention the types of locomotor organelles in Protozoa. Explain briefly how they bring about locomotion.

(b) Describe the various modes of asexual reproduction in Protozoa. (9+6)

3. What are coral reefs? Write all you know about coral formation mentioning clearly various forms of coral reefs met with all over the world. (15)

P.T.O.

4. (a) Give a detailed account of the criteria on the basis of which Non-Chordates have been classified.

(b) Give general characteristics of phylum Ctenophora.

(10+5)

5. (a) Describe the life cycle of *Ascaris lumbricoides* with the help of labelled diagrams.

(b) Give its physiological adaptations towards parasitic mode of life. (10+5)

6. Write short notes on any three of the following: (15)

(a) Polymorphism in Hydrozoa

(b) Structure and function of types of cells in sponges

(c) Syconoid canal system

(d) Sporogony