

This question paper contains 3 printed pages.

5118A

Your Roll No.

Subsidiary for B.Sc. Honours J

I Examination

**ZOOLOGY— Paper I
(Non-Chordata)**

(O.C.— Admissions of 2003 and before)

Time : 3 hours

Maximum Marks : 50

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

*Attempt five questions in all, including
Question No. 1 which is compulsory.*

Draw labelled diagrams wherever necessary.

1. (a) Define the following:

- (i) Euglenoid movement
- (ii) Conjugation
- (iii) Metagenesis
- (iv) Scavenger.

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(b) Classify the following animals:

- (i) Tapeworm
- (ii) Urn sponge

P. T. O.

- (iii) Sea mouse
- (iv) Cuttlefish. 4
- (c) Give *one* main function of each of the following:
- (i) Gemmules
- (ii) Madreporite
- (iii) Ctenidia
- (iv) Choanocytes. 4
- (d) Distinguish between the following pairs of words:
- (i) Anal cerci and anal styles
- (ii) Extracellular and intracellular digestion
- (iii) Tertian and quartan malaria
- (iv) Polyp and medusa. 2
2. (a) Give general characteristics of phylum Protozoa.
- (b) Classify phylum Protozoa giving examples and labelled diagrams. 4,5
3. Describe canal system in *Sycon*. What is its importance to the sponge? 9
4. (a) What are social insects?
- (b) Name any *four* social insects.
- (c) Give an account of social life in honeybees. 2,2,5

5. Describe the life cycle of *Fasciola hepatica*. Give a note on its parasitic adaptations. 9
6. Write notes on any *three* of the following:
- (i) Planula
 - (ii) Trochophore
 - (iii) Polymorphism
 - (iv) Locomotion in *Amoeba*. 3,3,3
7. (a) Describe the structure of an ommatidium. How does it help in vision?
- (b) Describe excretory system in earthworm. 4 $\frac{1}{2}$,4 $\frac{1}{2}$