

This question paper contains 3 printed pages.

4418

Your Roll No.

Subsidiary for B.Sc. Honours / I AS

ZOOLOGY— Paper I

Animal Diversity I (Non-Chordata)

(Admissions of 2004 and onwards)

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 terms:

(i) Pseudocoelom

(ii) Primary host

(iii) Metagenesis

(iv) Moulting.

4

(b) Give one function of each of the following:

(i) Tube feet

(ii) Osculum

(iii) Contractile vacuole

P. T. O.

(iv) Osphradium

(v) Malpighian tubules. 5

(c) Match the terms in Column A with those of Column B:

Column A

Column B

(i) Proglottid

(a) *Pila*

(ii) Ostia

(b) *Taenia*

(iii) Typhlosole

(c) Starfish

(iv) Radula

(d) *Sycon*

(v) Madreporite

(e) *Pheretima*

5

2. Explain in detail the process of conjugation in *Paramecium*. What is its significance? 7+2

3. Describe canal system in *Sycon*. 9

4. (a) Draw a well-labelled diagram (only) of female reproductive system of Cockroach.

(b) Explain the economic importance of mosquitoes.

4½+4½

5. Give an account of excretory system of earthworm. 9

6. Describe the water vascular system of *Pentaceros*. 9

7. Write short notes on any two: