



K16U 1240

Reg. No.:

Name:

II Semester B.Sc. Degree (CCSS – Reg./Supple./Improv.)
Examination, May 2016
CORE COURSE IN ZOOLOGY
2B02 ZLG : Protista and Non Chordata II
(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

I. Answer **any one** :

(1×8 = 8)

- 1) Write an essay on the water vascular system of starfish.
- 2) Give an account of the nervous system of Pila.

II. Answer **any one** :

(1×8 = 8)

- 3) Explain the respiratory organs and mode of respiration in Penaeus.
- 4) Classify Phylum Arthropoda down to classes with salient features of each class and examples.

III. Answer **any two** :

(2×4 = 8)

- 5) Describe the structure of parapodium of Nereis and compare with that of heteronereis.
- 6) List the features of hemichordata. Give example.
- 7) Draw labeled diagram to show the organs of pallial complex of Pila.

IV. Answer **any five** :

(5×2 = 10)

- 8) Write a note on the Balanoglossus.
- 9) Sketch and label green glands of Penaeus.
- 10) Write short notes on pedicellaria and madreporite.

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- 11) Give an account on Bonellia.
- 12) Write a short note on the evolutionary significance of Trilobite.
- 13) List the features of hirudinea.
- 14) What are tube feet ? Mention the functions.
- 15) Briefly explain the course of circulation in Penaeus.

V. Answer **any four** :

(4×1 = 4)

- 16) Mention the class to which Dentalium is assigned.
- 17) What are uropods ?
- 18) What is the scientific name of apple snail ?
- 19) What is radula ?
- 20) Name the phylum in which the larvae are bilaterally symmetrical and adults are radially symmetrical ?
- 21) What is petasma ?

VI. Answer the following :

22) Fill in the blanks :

(2×1 = 2)

- a) _____ is commonly called silver fish.
- b) Neanthes belongs to the class _____
- c) _____ is the sexual part in the body of Heteronereis.
- d) The representatives of _____ phylum are exclusively marine.

23) Match the following :

- | | |
|----------------|--------------|
| i) Radula | King crab |
| ii) Ommatidia | Hermit crab |
| iii) Eupagurus | Compound eye |
| iv) Limulus | Pila |