



M 8819

Reg. No. :

Name :

II Semester B.Sc. Degree (CCSS – 2014 Admn. – Regular)

Examination, May 2015

CORE COURSE IN ZOOLOGY

2B02 ZLG : Protista and Non Chordata – II

Time : 3 Hours

Max. Marks : 40

I. Answer **any one** :

(1×8=8)

- 1) Give an illustrated account of the digestive system of *Penaeus*.
- 2) Classify phylum annelida down to classes, giving salient features and examples.

II. Answer **any one** :

(1×8=8)

- 3) Describe the water vascular system of starfish and mention the role of the system in the life of it.
- 4) Write an essay on the economic importance of Mollusca.

III. Answer **any two** :

(2×4=8)

- 5) Write a short note on Trilobita.
- 6) Sketch and label the cephalic appendages of *Penaeus*.
- 7) List the features of phylum Echinodermata.

IV. Answer **any five** :

(5×2=10)

- 8) List the features of insecta.
- 9) What is heteronereis ? How does it differ from Nereis ?
- 10) Describe the morphology of starfish.
- 11) Explain the mode of respiration of *Pila globosa*.
- 12) Mention the features of crustacea.
- 13) Write a short note on sacculina. Mention parasitic castration.
- 14) Sketch and label parapodium.
- 15) Give an account on the parasitic adaptations of Hirudinaria.

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(4×1=4)

V. Answer any four :

- 16) What is sexual dimorphism ? Name an animal which shows it.
- 17) Name the excretory organs of Penaeus.
- 18) What is the organ of Bojanus ? Mention its function.
- 19) What is hirudin ?
- 20) Which animal is called cuttle fish ?
- 21) What is clitellum ?

(2×1=2)

VI. Answer the following :

22) Fill in the blanks :

- a) Dentalium is commonly called _____
- b) Sepia belongs to the class _____
- c) _____ is the study of Mollusca.
- d) _____ is the locomotory structure of nereis.

23) Match the following :

- | | |
|------------------|-----------------------------|
| i) Hemichordata | Sepia |
| ii) Napius | Retrogressive metamorphosis |
| iii) Cuttle bone | Penaeus |
| iv) Sacculina | Balanoglossus |