



K24U 1640

Reg. No. :

Name :

**Second Semester B.Sc. Degree (CBCSS – OBE-Regular/Supplementary/
Improvement) Examination, April 2024
(2019 Admission Onwards)
CORE COURSE IN ZOOLOGY
2B02ZLG : Nonchordata – 2**

Time : 3 Hours

Max. Marks : 40

Instruction : Give illustrations and figures wherever necessary.

- I. Essay questions. **Each** question carries **8** marks. Answer **any two**. (2×8=16)
- 1) Write an account on Phylum Onychophora. Analyse affinities of *Peripatus*, with Phylum Annelida and Arthropoda.
 - 2) Explain the reproductive system and life cycle of the *Penaeus*.
 - 3) Explain the economic importance of Molluscs.
 - 4) Write an essay on the larval forms of Echinoderms.
- II. Short Essay. **Each** question carries **4** marks. Answer **any two**. (2×4=8)
- 5) Describe the adaptations of *Hirudinaria*.
 - 6) Describe the major steps in pearl culture.
 - 7) Provide a short account of *Bombyx mori*, and its significance in sericulture.
- III. Short Answer Questions. **Each** question carries **2** marks. Answer **any six**. (6×2=12)
- 8) What is heteronereis ?
 - 9) Describe sexual dimorphism seen in *Penaeus*.
 - 10) What is the evolutionary significance of *Limulus* ?
 - 11) What is radula ?
 - 12) Comment on evisceration.
 - 13) List out four major features of Phylum Hemichordata.
 - 14) What is parasitic castration ?
 - 15) Give a brief account on *Chiton*.

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- IV. Multiple Choice Questions. **Each** question carries **0.5** marks. Answer **all**. (8×0.5=4)
- 16) What is a characteristic feature of Phylum Echiura ?
A) Articulating plates B) Tube feet
C) Proboscis D) Water vascular system
 - 17) Thick and saddle like band found in the earthworm.
A) Clitellum B) Peristomium C) Prostomium D) Proboscis
 - 18) Among the Coelomate Minor Phyla, which example is associated with Phylum Ectoprocta ?
A) *Balanoglossus* B) *Phoronis* C) *Bugula* D) *Bonellia*
 - 19) What is the significance of Class Trilobita ?
A) Represent a transitional form to vertebrates
B) Extinct group with fossil importance
C) Dominant marine arthropods
D) Major agricultural pests
 - 20) What is the common name of holothurians ?
A) Sea Cucumber B) Sea Urchin
C) Brittle Star D) Star Fish
 - 21) *Perna* belongs to the class
A) Scaphopoda B) Cephalopoda C) Bivalvia D) Gastropoda
 - 22) Which of the following is commonly known as Hermit Crab ?
A) *Sacculina* B) *Eupagurus* C) *Limulus* D) *Palamnaeus*
 - 23) Ink sac complex is found in
A) *Sepia* B) *Pila* C) *Perna* D) *Dentalium*