



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*.

P.T.O.



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*