



K23U 2011

Reg. No. :

Name :

**II Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, April 2023
(2019 Admission Onwards)
CORE COURSE IN ZOOLOGY
2B02 ZLG : Nonchordata – II**

Time : 3 Hours

Max. Marks : 40

Instruction : Give illustrations and figures wherever necessary.

- I. Essay Questions (**Each** question carries 8 marks) Answer any 2.
- 1) Write a brief essay on different process involved in pearl culture.
 - 2) Explain morphology and adaptations of *Nereis*.
 - 3) Write notes on the salient features of Phylum Echinodermata. Add notes on its classification down to classes with suitable examples.
 - 4) Write notes on the Mouth parts of the following insects.
 - a) Cockroach
 - b) Honey bee
 - c) Butterfly
 - d) Mosquito
- II. Short Essay (**Each** question carries 4 marks) Answer any 2.
- 5) Comment on the ultra structure of shell of Molluscs.
 - 6) Write notes on limulus with special reference to its evolutionary significance.
 - 7) Comment on the salient features of Phylum Hemichordata. Give example.
- III. Short Answer Questions (**Each** question carries 2 marks) Answer any 6 :
- 8) What is scaphognathite ?
 - 9) What is osphradium ?
 - 10) Describe sexual dimorphism as seen in *Penaeus*.
 - 11) Write a short note on horseshoe worms.
 - 12) Comment on the parasitic adaptations in *Sacculina*.

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- 13) Write a short note on forest honey bees.
- 14) What is Aristotle's lantern ? What is its functions ?
- 15) What is heteroneries ?

IV. Multiple Choice Questions (**Each** question carries 0.5 marks) Answer all.

- 16) Which of the following animals is known as 'Rice bug'.
 - a) *Oryctes rhinoceros*
 - b) *Leptocorisa acuta*
 - c) *Di cladispa armigera*
 - d) *Spodoptera mauritia*
- 17) _____ is the definitive host of *Plasmodium vivax*.
 - a) Female *Anopheles*
 - b) Female *Aedes*
 - c) Female *Culex*
 - d) Female *Mansonia*
- 18) Respiratory organs in aquatic gastropods.
 - a) Trachea
 - b) Pulmonary sac
 - c) Ctenidia
 - d) Moist skin
- 19) Name the class to which Chiton belongs to
 - a) Polyplacophora
 - b) Bivalvia
 - c) Gastropoda
 - d) Cephalopoda
- 20) Which of the following is commonly called as devil fish ?
 - a) *Sepia*
 - b) *Octopus*
 - c) *Loligo*
 - d) *Asterias*
- 21) Respiratory process seen connected to maxillipeds and chelipeds.
 - a) Matigobbranch
 - b) Propodite
 - c) Gnathobase
 - d) Sternitesh
- 22) Largest class of Phylum Arthropoda.
 - a) Crustacea
 - b) Myriapoda
 - c) Insecta
 - d) Arachnida
- 23) Anticoagulant enzyme present in the saliva of leech is
 - a) Heparin
 - b) Plasmin
 - c) Hemopoietin
 - d) Hirudin