



K22U 3439

Reg. No. :

Name :

**I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)**

COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY

**1C01 ZLG : Diversity of life – I
Protistans and Non Chordates**

Time : 3 Hours

Max. Marks : 32

I. Essay Questions. Answer **any two**. (2×6=12)

- 1) What are coral reefs ? Comment on their significance.
- 2) List six salient features of Gastropoda.
- 3) Describe the morphological features of *Echinus*.
- 4) With the help of a labelled diagram, explain digestive system in *Penaeus*.

II. Short Essay Questions. Answer **any two**. (2×3=6)

- 5) Give an account of different modes of reproduction in Protista.
- 6) Explain respiratory system in *Penaeus*.
- 7) Citing examples, describe how the beneficial activities of insects are being utilised on a commercial scale.

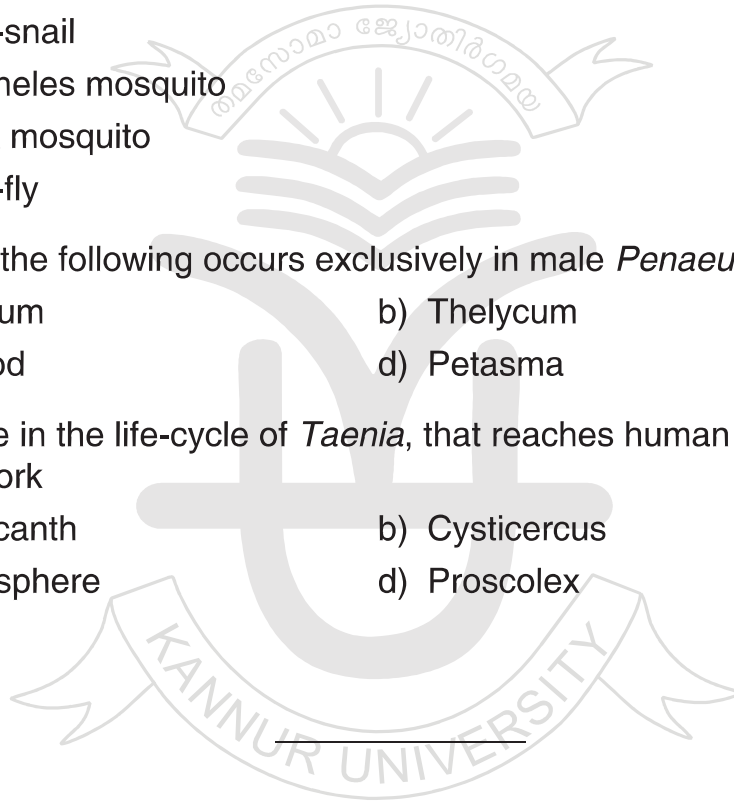
III. Short Answer Questions. Answer **any six**. (6×2=12)

- 8) What is radula ? State its function.
- 9) Mention the strategy adopted by termites to digest cellulose.
- 10) Write notes on excretory organs in *Planaria*.
- 11) What is petasma ?
- 12) Write short notes on the distribution of *Perna* in our state.
- 13) Discuss the economic importance of earthworms.
- 14) Sketch and label the first and second maxillipedes of *Penaeus*.
- 15) Mention the peculiarities of blood – vascular system of Annelids.

P.T.O.

IV. Multiple Choice Questions. **All** questions are **compulsory**. (4×0.5=2)

- 16) Which of the following is not a function of tube feet of Echinoderms ?
- a) Excretion
 - b) Respiration
 - c) Locomotion
 - d) Food collection
- 17) The secondary host of *Wuchereria bancrofti*
- a) Pond-snail
 - b) Anopheles mosquito
 - c) Culex mosquito
 - d) Sand-fly
- 18) Which of the following occurs exclusively in male *Penaeus* ?
- a) Clitellum
 - b) Thelycum
 - c) Uropod
 - d) Petasma
- 19) The stage in the life-cycle of *Taenia*, that reaches human body through measly pork
- a) Hexacanth
 - b) Cysticercus
 - c) Oncosphere
 - d) Proscolex





K21U 6820

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I Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2021

(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY

1C01ZLG : Diversity of Life – I

Protistans and Non-Chordates

Time : 3 Hours

Max. Marks : 32

Instruction : Give illustrations and figures *wherever* necessary.

- I. Essay Questions (**Each** question carries **6** marks). Answer **any two** :
- 1) Write an essay on cephalic appendages of Prawn.
 - 2) Describe the digestive system of earthworm.
 - 3) Explain the water vascular system in Echinoderms.
 - 4) With a neat labelled diagram describe the structure of Obelia. (2×6=12)
- II. Short Essay (**Each** question carries **3** marks). Answer **any two** :
- 5) Comment on the salient features and economic importance of Mollusca.
 - 6) Write an account on the pathogenic nematode Wuchereria.
 - 7) Comment on the morphological features and parasitic adaptations of Hirudinaria. (2×3=6)
- III. Short answer questions (**Each** question carries **2** marks). Answer **any six** :
- 8) Comment on the sexual dimorphism in Ascaris.
 - 9) Distinguish between the polyp and medusa stages of Cnidaria.
 - 10) Comment on Apiculture and Sericulture.
 - 11) Write notes on Heteronereis.

P.T.O.



K21U 6820

- 12) What is mealy pork ?
- 13) Explain the features of Trichonympha.
- 14) Name two larval forms of Sponges.
- 15) Write short note on Animal Protists.

(6×2=12)

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

- 16) Water enters into spongocoel through
 - a) Osculum
 - b) Choanocytes
 - c) Ostia
 - d) Madreporite
- 17) Protista includes
 - a) Unicellular Prokaryotes
 - b) Unicellular Eukaryotes
 - c) Bacteriophage
 - d) Blue green algae
- 18) Which of the following phylum is Pseudocoelomate ?
 - a) Cnidaria
 - b) Nematoda
 - c) Porifera
 - d) Platyhelminthes
- 19) Spider and Scorpions are include in the class
 - a) Arachnida
 - b) Insecta
 - c) Crustacea
 - d) Anthozoa

(4×0.5=2)



K20U 3340

Reg. No. :

Name :

**I Semester B.Sc. Degree CBCSS (OBE) Reg./Sup./Imp.
Examination, November 2020
(2019 Admn. Onwards)**

**COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY
1C 01 ZLG Diversity of Life I : Protistans and Non Chordates**

Time : 3 Hours

Max. Marks : 32

I. Essay Questions. Answer any two.

(2×6=12)

- 1) Write an essay on coral forming Cnidarians and their significance.
- 2) With a neat labelled diagram, explain cephalic appendages of Penaeus.
- 3) Explain the salient features of Phylum Nematoda. Add a note on features of any one nematode Parasite.
- 4) Describe the circulatory system of Megascoclex with a suitable diagram.

(2×3=6)

II. Short Essay Questions. Answer any two.

- 5) Provide an account of Obelia colony.
- 6) Write notes on Sepia.
- 7) Explain salient features of Phylum Echinodermata.

(6×2=12)

III. Short Answer Questions. Answer any six.

- 8) What is petasma ? Mention its function.
- 9) Explain the biological relationship between Trichonympha and termites.
- 10) What is metagenesis ? Give an example.
- 11) Distinguish between plant Protists and animal Protists.

P.T.O.

K20U 3340

- 12) Comment on polymorphism in *Physalia*.
- 13) Enlist any 4 salient features of Class *Gastropoda*.
- 14) Explain parasitic adaptations of *Taenia solium*.
- 15) Write short notes on *Holothuria*.

IV. Multiple Choice Questions. **All Questions Compulsory.**

(4×0.5=2)

- 16) The rasping organ found in the oral cavity of Mollusc is
 - a) Aristotle's lantern
 - b) Radula
 - c) Mantle
 - d) Ctenidia
 - 17) Gastrovascular cavity is found in
 - a) Starfish
 - b) *Penaeus*
 - c) *Obelia*
 - d) *Ascaris*
 - 18) Cellular level of organization is found in
 - a) Mollusca
 - b) Arthropoda
 - c) Annelida
 - d) Porifera
 - 19) The ciliated free swimming larva during development of Annelids
 - a) Bipinnaria
 - b) Trochophore
 - c) Parenchymula
 - d) Planula
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I Semester B.Sc. Degree CBCSS (OBE)-regular
November -2019

(2019 Admission)

COMPLEMENTARY ELECTIVE COURSE IN ZOOLOGY
1C 01 ZLG : DIVERSITY OF LIFE I - PROTISTANS AND NON
CHORDATES

Time : 3 Hours

Max. Marks : 32

(2 × 6 = 12)

I Essay Questions. Answer any Two.

1. Write an essay on locomotion in Protista.
2. Describe the salient features of phylum porifera with a suitable example.
3. Explain the economic importance of Mollusca.
4. Describe the respiratory system and mechanism of respiration in *Penaeus*.

(2 × 3 = 6)

II Short Essay Questions. Answer any two

5. Explain different types of maxillipeds of *penaeus* with suitable diagrams.
6. Write notes on *physalia*
7. Explain salient features of phylum Platyhelminthes

(6 × 2 = 12)

III Short Answer Questions. Answer any Six

8. What is tube feet? Mention its function
9. Distinguish between polyp and medusa
10. Explain sexual dimorphism in *Schistosoma*
11. Comment on association between *Adamsia* and Hermit crab

P.T.O

(2)

K19U 3340

12. Enlist blood feeding adaptations of Leech..
13. Enlist any 4 salient features of Class Arachnida.
14. Explain parasitic adaptations of *Ascaris*
15. Write short notes on *Echinus*.

IV Multiple Choice Questions. All Questions compulsory (4 × 0.5 = 2)

16. The respiratory organ of Echinoderms is
 - a) Aristotle's lantern
 - b) Dermal branchiae
 - c) Radula
 - d) Ctenidia
17. Jelly fish is
 - a) *Aurelia*
 - b) *adamsia*
 - c) *Madrepora*
 - d) *Fungia*
18. The phylum in which the body of organism is divisible into head, visceral mass and foot
 - a) Mollusca
 - b) Arthropoda
 - c) Annelida
 - d) Porifera
19. The Ciliated free swimming larva during development of Cnidaria
 - a) Bipinnaria
 - b) Trochophore
 - c) Parenchymula
 - d) Planula