



K22U 3438

Reg. No. :

Name :

I Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/
Improvement) Examination, November 2022
(2019 Admission Onwards)
CORE COURSE IN ZOOLOGY
1B01ZLG : Protista and Non Chordata – I

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) Describe different types of canal systems in sponges.
- 2) Write notes on the salient features of Phylum Cnidaria. Comment on its classification down to classes with suitable examples.
- 3) Briefly describe different classification systems.
- 4) Write notes on any four of the following :
 - a) *Adamsia*
 - b) *Brachionus*
 - c) *Pleurobrachia*
 - d) *Ancylostoma*
 - e) *Rhopalura*.

II. **Short Essay**. **Each** question carries **4** marks. Answer **any 2**.

- 5) Write a short essay on ICZN and its principles.
- 6) Explain conjugation in *Paramecium*.
- 7) Comment on the salient features of Phylum Mesozoa. Give examples.

III. **Short answer** questions. **Each** question carries **2** marks. Answer **any 6**.

- 8) Write a short note on cydippid larva.
- 9) What are stoloniferous corals ?
- 10) Describe sexual dimorphism with *Ascaris* as an example.

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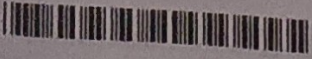
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- 11) Comment on the polyembryony in *Fasciola*.
- 12) Distinguish between protostomia and Deuterostomia.
- 13) What are the advantages of coelom ?
- 14) What are trichocysts ? What are their functions ?
- 15) What is metagenesis ?

IV. Multiple choice questions. **Each** question carries **0.5** mark. Answer **all**.

- 16) Which of the following animals is known as 'sea sparkle' ?
a) *Noctiluca* b) *Euplectella* c) *Paramecium* d) *Rhizostoma*
- 17) Marginal sensory structure in the medusae of *Obelia*.
a) Cnidoblast b) Trichocyst c) Axoblast d) Statocyst
- 18) Which is the characteristic larval form of porifera ?
a) Cydippid b) Amphiblastula
c) Pluteus d) Veliger
- 19) Name the Phylum to which *Chaetonotus* belongs to
a) Nematoda b) Platyhelminthes
c) Gastrotricha d) Placozoa
- 20) Which of the following is a free living flatworm ?
a) *Dugesia* b) *Halitemma*
c) *Fasciola* d) *Acanthocephalus*
- 21) Eight kingdom classification was proposed by
a) Ernst Haeckel b) Herbert Copeland
c) R.H. Whittaker d) Cavalier-Smith
- 22) Largest class of sponges
a) *Calcarea* b) *Demospongiae*
c) *Hexactinellida* d) *Turbellaria*
- 23) Which of the following is known as filarial worm ?
a) *Ancylostoma* b) *Schistosoma*
c) *Ascaris* d) *Wuchereria*



K21U 6819

Reg. No. :

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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
CORE COURSE IN ZOOLOGY
1B01 ZLG : Protista and Nonchordata – I**

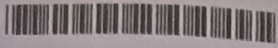
Time : 3 Hours

Max. Marks : 40

Instruction : Give illustrations and figures **wherever** necessary.

- I. Essay Questions. Answer **any two**. **Each** question carries **8** marks.
- 1) Write an essay on the preparation and types of Taxonomical key.
 - 2) Classify phylum Porifera, write salient features and examples of each class.
 - 3) Explain the life cycle and pathogenicity of *Ascaris*.
 - 4) Explain polymorphism with suitable examples. **(2×8=16)**
- II. Short essay questions. Answer **any two**. **Each** question carries **4** marks.
- 5) Comment on the different types of canal system in sponges.
 - 6) Give an account on the Concept of species.
 - 7) Comment on the pathogenicity and parasitic adaptations of *Taenia solium*. **(2×4=8)**
- III. Short answer questions. Answer **any six**. **Each** question carries **2** marks.
- 8) Name the larval forms of *Fasciola*.
 - 9) What is Berlese funnel ?
 - 10) Comment on Rotifers.
 - 11) Give two examples of Euglenozoa and comment on them.

P.T.O.



K20U 3339

Reg. No. :

Name :

I Semester B.Sc. Degree CBCSS (OBE) Reg./Sup./Imp.

Examination, November 2020

CORE COURSE IN ZOOLOGY

1B01ZLG : PROTISTA AND NONCHORDATA – I

(2019 Admn. Onwards)

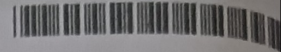
Time : 3 Hours

Max. Marks : 40

Instruction : Give illustrations and figures wherever necessary.

- I. Essay questions. Answer **any 2**. Each question carries **8** marks. **(2×8=16)**
- 1) Write an essay on the modern trends in systematics.
 - 2) Describe the salient features of Platyhelminthes and classify down to classes.
 - 3) Explain the life cycle and pathogenicity of *Ascaris*.
 - 4) Write note on corals and coral reefs.
- II. Short Essays : Answer **any 2**. Each question carries **4** marks. **(2×4=8)**
- 5) Give an account on Phylum Rotifera.
 - 6) Describe the different water canal system found in Phylum Porifera.
 - 7) Brief account on different system of classification.
- III. Short answer questions : Answer **any 6**. Each question carries **2** marks. **(6×2=12)**
- 8) Comment on pathogenicity of *Schistosoma*.
 - 9) Write note on ICZN.
 - 10) What is gemmulation ?
 - 11) Write note on 'red tide'.
 - 12) What are cnidoblasts ?

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13) What is molecular systematics ?

14) What is 'Principle of priority' ?

15) Give an account on polymorphism in *Physalia*.

IV. Multiple Choice Questions. Each question carries 0.5 marks.

(8×0.5=4)

16) Who proposed the three kingdom classification ?

a) Earnest Haeckel

b) R.H. Whittaker

c) Linnaeus

d) G.Bauhin

17) *Vorticella* is commonly called _____

a) Sun animalcule

b) Cell animalcule

c) Slipper animalcule

d) Bell animalcule

18) In nomenclature, each of two or more different names for the same taxon is

a) Homonym

b) Synonym

c) Tautonym

d) Cheironym

19) Portuguese man of war is the common name of _____

a) *Adamsia*

b) *Carybdea*

c) *Physalia*

d) *Madrepora*

20) The structure concerned with offense and defense in *Physalia* is

a) Dactylozoid

b) Gastrozoid

c) Pneumatophore

d) Gonozoid

21) _____ is an elastic, double layer membrane that covers the body of *Paramecium*.

a) Cilia

b) Cytopyge

c) Pellicle

d) Kinetosome

22) In sponges water enters the spongocoel through the ostia and passes out through the _____

a) Osphradium

b) Osticle

c) Osculum

d) Porocyte

23) Used for extraction of soil organisms

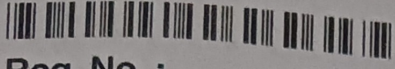
a) Standard flask

b) Berlese funnel

c) Conical flask

d) Extractor

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K19U 3339

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I Semester B.Sc. Degree (CBCSS(OBE) - Regular)
Examination, November - 2019
(2019 Admission)

Core Course in Zoology

1B01ZLG : PROTISTA AND NONCHORDATA - I

Time : 3 Hours

Max. Marks : 40

(Give illustrations and figures wherever necessary)

I. **Essay questions: Answer any 2. Each question carries 8 marks.**

(2×8=16)

1. Describe the polymorphism in Coelentrata.
2. Write an essay on different types of canal system in sponges with diagram
3. Discuss the different types of taxonomic keys. Select any four phyla and prepare any two types of taxonomic keys.
4. Describe the structural organization of *Paramecium*. Give a detailed description of conjugation.

II. **Short Essays: Answer any 2. Each question carries 4 marks. (2×4=8)**

5. Write note on different methods of collecting zoological specimens.
6. Write note on parasitic adaptation of *Ascaris*.
7. Differentiate between polyp and medusa.

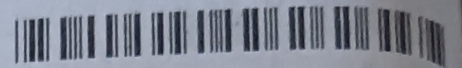
III. **Short answer questions: Answer any 6. Each question carries 2 marks.**

(6×2=12)

8. Write notes on ICZN.
9. What is statocyst?
10. Differentiate between synonym and homonym.
11. Give an account on amphiblastula.
12. Write note on nutrition of *Paramecium*.
13. Write note on pathogenicity and treatment of *Leishmania donovani*.
14. Give an account on Demospongia.
15. Write note on phyletics.

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IV. Multiple Choice Questions: Each question carries 0.5 mark. (8×0.5=4)

16. _____ is the structure in *Paramecium* which is used for defence, adhesion and anchorage.
- a) Kinetosome
b) Alveolus
c) Cilium
d) Trichocyst
17. Which among the following exhibits biradial symmetry?
- a) Starfish
b) *Chaetoonotus*
c) Round worm
d) *Pleurobrachia*
18. *Euplectella* is commonly called _____.
- a) Glass sponge
b) crown sponge
c) spongilla
d) sycon
19. Chagas' disease is caused by
- a) *L.donovani*
b) *L.tropica*
c) *L.brasiliensis*
d) *Trypanasoma*
20. Free swimming larvae among porifera is commonly called
- a) grantia
b) pheronema
c) cidippid
d) amphiblastula
21. Alternation of generation among cnidarians is also known as
- a) metastasis
b) metamerism
c) metagenesis
d) metazoa
22. Nomenclature literally means
- a) to call by name
b) to arrange by name
c) to arrange by hierarchy
d) None of these
23. Which of the following has no segmentation?
- a) hydra
b) earthworm
c) centipede
d) cockroach