

**Bs/Zoo/M1 (T)**

**2023**

**( FYUGP )**

**( 1st Semester )**

**ZOOLOGY**

**( Minor )**

Paper Code : Zoo/M-1 (T)

**( Non-chordates—I : Protists to Pseudocoelomates )**

*Full Marks : 75*

*Pass Marks : 40%*

*Time : 3 hours*

**( PART : B—DESCRIPTIVE )**

**( Marks : 50 )**

*The figures in the margin indicate full marks  
for the questions*

1. Give the general characteristics of Protista and classify up to class. 5+5=10

*Or*

With proper illustrations, describe the life cycle of *Paramecium* in detail. 10

24L/398a

*( Turn Over )*

2. With proper examples, classify Porifera up to class. 10

Or

Write notes on the following : 10

- (a) Canal system in sponges  
(b) Segmentation in Metazoa

3. Write a detailed account on metagenesis in obelia with proper diagrams. 10

Or

What are corals? Explain the different types of coral reefs. 2+8=10

4. Give an account on the evolutionary significance of Ctenophora. 10

Or

Give the general characteristics of the phylum Platyhelminthes. 10

5. Classify Nematelminthes up to class with examples. 10

Or

Write an account on the life cycle of *Ascaris lumbricoides*. Add a note on its pathogenecity. 7+3=10

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Paper Code : Zoo/M1 (T)

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( PART : A—OBJECTIVE )

( Marks : 25 )

*The figures in the margin indicate full marks for the questions*

SECTION—I

( Marks : 15 )

Put a Tick (✓) mark against the correct answer in the brackets provided : 1×15=15

1. Who forwarded the five kingdom classification?

- (a) Robert H. Whittaker ( )
- (b) Carl Woese ( )
- (c) Carolus Linnaeus ( )
- (d) Haeckel ( )

2. Which among the following protists use cilia for locomotion?

- (a) *Euglena* ( )
- (b) *Amoeba* ( )
- (c) *Paramecium* ( )
- (d) *Leishmania* ( )

3. Plasmodium belongs to the phylum

- (a) Sarcomastigophora ( )
- (b) Apicomplexa ( )
- (c) Microspora ( )
- (d) Ciliophora ( )

4. The course of water current in syconoid type of canal system is

- (a) ingressing water → dermal ostia → subdermal cavity → incurrent canal (prosopyle) → flagellated chambers → excurrent canal (apopyle) → spongocoel → outside ( )
- (b) ingressing water → dermal ostia → incurrent canal → prosopyle → flagellated chambers → apopyle → excurrent canal → osculum → outside ( )
- (c) ingressing water → dermal ostia → incurrent canal → prosopyle → radial canal → apopyle → spongocoel → osculum → outside ( )
- (d) ingressing water → dermal ostia → spongocoel → osculum → outside ( )

5. Spicules (macroscleres) that are made of several axes originating from a centre is called

- (a) polyaxons ( )
- (b) spheres ( )
- (c) calthrobs ( )
- (d) desma ( )

6. Arthropod is an example of

- (a) pseudometamerism ( )
- (b) internal metamerism ( )
- (c) complete metamerism ( )
- (d) incomplete metamerism ( )

7. A reef that is formed around the island at about 1 km to 15 km away from seashore is called

- (a) atoll reef ( )
- (b) fringing reef ( )
- (c) barrier reef ( )
- (d) lagoon ( )

8. A cup-like coral of polyp is called

- (a) corallite ( )
- (b) corallum ( )
- (c) septa ( )
- (d) columella ( )

9. Presence of Cnidoblasts (stinging cells) is a characteristic feature of phylum.

- (a) Porifera ( )
- (b) Platyhelminthes ( )
- (c) Cnidaria ( )
- (d) Ctenophora ( )

10. Presence of narrow and small pharynx is a character of class

- (a) Tentaculata ( )
- (b) Nuda ( )
- (c) Turbellaria ( )
- (d) Digenea ( )

11. The secondary host of *Taenia solium* is

- (a) man ( )
- (b) pig ( )
- (c) mosquito ( )
- (d) fly ( )

12. Ctenophora resemble with Coelenterata by

- (a) crawling mode of life ( )
- (b) ciliation of the body ( )
- (c) cellular mesoglea ( )
- (d) lack of coelom ( )

13. Caudal adhesive glands are present in class

- (a) Adenophorea ( )
- (b) Secernentea ( )
- (c) Gordioida ( )
- (d) Seisonidea ( )

14. Roundworm is a/an

- (a) monogenetic parasite ( )
- (b) digenetic parasite ( )
- (c) ectoparasite ( )
- (d) None of the above ( )

15. Spiny cuticle is the characteristic of phylum

- (a) Gastrotricha ( )
- (b) Rotifera ( )
- (c) Kinorhynca ( )
- (d) Acanthocephala ( )



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SECTION—II

( Marks : 10 )

Write short notes on any *five* of the following :  $2 \times 5 = 10$

1. Pathogenecity of *Wuchereria bancrofti*

2. Types of larva in *Fasciola hepatica*

Bs/Zoo/M1 (T)/398

3. Conjugation in *Paramecium*

4. Pseudometamerism

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5. Leucon type of canal system

6. General characteristics of Cnidaria

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7. Fringing reefs

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Bs/Zoo/M1 (T)/398

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