

Bs/ZOO/M1 (T)

2024

(FYUGP)

(1st Semester)

ZOOLOGY

(Minor)

Paper Code : ZOO/M-1 (T)

(Non-Chordates I-Protista 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. Describe the various stages of the life cycle of
Amoeba with proper diagram.**

10

Or

**Describe the different methods of locomotion
used by protists.**

L25/132a

(Turn Over)

2. Give the general characteristics of phylum Porifera. Give some suitable examples. $8+2=10$

Or

Write notes on the following : $5 \times 2 = 10$

- (a) Spicules in sponges
- (b) Symmetry in metazoa

3. Give the general characteristics of Cnidaria and classify up to class. $5+5=10$

Or

With well-labelled diagram, describe the polymorphism in Cnidaria. 10

4. With well-labelled diagram, describe the life cycle of *Taenia solium*. 10

Or

Classify Platyhelminthes up to classes. Add note on pathogenicity of *Fasciola hepatica*.

$7+3=10$

5. Give the general characteristics of Nematelminthes. Give some suitable examples. $8+2=10$

Or

With life cycle chart, write an account on the life cycle of *Wuchereria bancrofti*. 10

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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. *Euglena* moves with the help of

- (a) cilia and flagella ()
- (b) undulating membrane ()
- (c) pseudopodia ()
- (d) flagellum ()

2. Osmoregulation in *Amoeba* is done by

- (a) lobopodia ()
- (b) contractile vacuole ()
- (c) general body surface ()
- (d) nucleus ()

3. Cytopyge is found in

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

4. Which structure in sponges corresponds to the mouth of other animals?

- (a) Incurrent canals ()
- (b) Excurrent canals ()
- (c) Osculum ()
- (d) Ostia ()

5. Simplest type of canal system is

- (a) ascon type ()
- (b) sycon type ()
- (c) diplodal type ()
- (d) eurypylous type ()

6. Which of the following cells in sponges catch food?

- (a) Pinacocytes ()
- (b) Porocytes ()
- (c) Choanocytes ()
- (d) Archaeocytes ()

7. Larva of *Obelia* is

- (a) planula ()
- (b) amphiblastula ()
- (c) scyphistoma ()
- (d) parenchymella ()

8. Modifications of polyps are

- (a) gastrozooids ()
- (b) dactylozooids ()
- (c) gonozooids ()
- (d) All of the above ()

9. Precious coral is formed from the skeleton of

- (a) *Tubularia* ()
- (b) *Fungia* ()
- (c) *Rubrum* ()
- (d) *Corallium rubrum* ()

10. The cause of 'liver rot' in sheep is

(a) *Dugesia*

(b) *Fasciola*

(c) *Taenia*

(d) *Schistosoma*

11. Bladder worm is found in

(a) human muscles

(b) human faeces

(c) soil

(d) muscles of pig

12. Platyhelminthes are

(a) acoelomate

(b) haemocoelomate

(c) coelomate

(d) pseudocoelomate

13. Female *Ascaris* can be differentiated from male *Ascaris* by

(a) straight posterior end ()

(b) curved posterior end ()

(c) smaller size ()

(d) genital papillae ()

14. *Wuchereria bancrofti* is transmitted by

(a) Tsetse fly ()

(b) Head louse ()

(c) *Culex* ()

(d) Sand fly ()

15. Roundworms differ from flatworms in having

(a) flame cells ()

(b) pseudocoelom ()

(c) segmented body ()

(d) ventral nerve cord ()

SECTION—II

(Marks : 10)

Write short notes on any *five* of the following questions :

2×5=10

1. Segmentation in metazoa

(7)

2. Locomotion in *Amoeba*

3. Cystic

(8)

3. Coral reefs

SECTION - II
(Marks : 10)

Write short notes on any five of the following questions.

1. Segmentation in insects

4. Ascon type of canal system

(10)

5. Pathogenicity of *Ascaris lumbricoides*

6. Pathogenecity of *Taenia solium*

(12)

7. Helminth parasitic adaptation

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BSI(T) L25-300E