

2025

(FYUGP)

(1st Semester)

ZOOLOGY

(MINOR)

Paper Code : Zoo/M1(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. Classify phylum Protista up to classes with characters and suitable examples. 10

Or

With suitable diagrams, describe the different modes of reproduction in Protista.

2. Explain the concept of segmentation in Metazoa. Describe its different types. 10

Or

Describe the different types of canal system in sponges with suitable diagrams.

3. Explain the phenomenon of metagenesis in Obelia with a labelled diagram. 10

Or

Give an account on the characteristics of corals. Add a note on the ecological significance of coral reefs. 7+3=10

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

Or

Give the general characteristics of phylum Platyhelminthes with suitable examples.

5. With a proper life cycle chart, discuss the life cycle of *Ascaris lumbricoides*. 10

Or

Give a detailed account on the parasitic adaptations in helminths.

Subject Code : Bs/Zoo/M1(T)

To be filled in by the Candidate

BA / BSc / BCom / BBA / BCA
1st Semester End Term
Examination, 2025 (FYUGP)

Subject

Paper

INSTRUCTIONS TO CANDIDATES

1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
2. This paper should be ANSWERED FIRST and submitted within 1 (one) Hour of the commencement of the Examination.
3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Signature of
Scrutiniser(s)

Signature of
Examiner(s)



Booklet No. A 61

Date Stamp

.....

To be filled in by the
Candidate

BA / BSc / BCom / BBA / BCA
1st Semester End Term
Examination, 2025 (FYUGP)

Roll No.

Regn. No.

Subject

Paper

DESCRIPTIVE TYPE

Booklet No. B

Signature of
Invigilator(s)

2025

(FYUGP)

(1st Semester)

ZOOLOGY

(MINOR)

Paper Code : Zoo/M1(T)

(Non-Chordates I : Protista to Pseudocoelomates)

(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* is unique because

- (a) it reproduces sexually only ()
- (b) it has both plant-like (photosynthetic) and animal-like (heterotrophic) features ()
- (c) it is strictly parasitic ()
- (d) it lacks locomotory structures ()

2. Most protists are reproduced by

- (a) binary fission (asexual reproduction) ()
- (b) budding only ()
- (c) fragmentation ()
- (d) conjugation only ()

3. The life cycle of *Paramecium* includes sexual reproduction by

- (a) binary fission ()
- (b) multiple fission ()
- (c) conjugation ()
- (d) budding ()

4. Which class of Porifera includes sponges with six-rayed siliceous spicules?

- (a) Calcarea ()
- (b) Hexactinellida ()
- (c) Demospongiae ()
- (d) Sclerospongiae ()

5. Which type of symmetry is found in most animals belonging to phylum Porifera?

- (a) Radial symmetry ()
- (b) Bilateral symmetry ()
- (c) Asymmetry ()
- (d) Spherical symmetry ()

6. Spicules in sponges are mainly made up of

- (a) chitin ()
- (b) calcium carbonate and silica ()
- (c) cellulose ()
- (d) keratin ()

7. Which of the following is the characteristic feature of Cnidaria?

- (a) Flame cells ()
- (b) Nematocysts (stinging cells) ()
- (c) Triploblastic body ()
- (d) Nephridia ()

8. In cnidarians, polymorphism means

- (a) presence of many types of nematocysts ()
- (b) presence of multiple forms of zooids in a colony ()
- (c) alternation of haploid and diploid phases ()
- (d) occurrence of multiple larvae ()

9. Coral reefs are formed by

- (a) hydrozoans ()
- (b) scyphozoans ()
- (c) anthozoans ()
- (d) cubozoans ()

10. A unique feature of Ctenophora is

- (a) nematocysts ()
- (b) colloblasts for food capture ()
- (c) flame cells ()
- (d) parapodia ()

11. *Fasciola hepatica* infects mainly the

- (a) lungs of sheep ()
- (b) liver of sheep and cattle ()
- (c) intestine of humans only ()
- (d) stomach of cattle ()

12. The pathogenicity of *Taenia solium* in humans mainly results in

- (a) brain damage ()
- (b) cysticercosis and intestinal problems ()
- (c) cirrhosis of liver ()
- (d) bacterial infection ()

13. Which of the following is not a general characteristic of Nematelminthes?

- (a) Triploblastic and pseudocoelomate body plan ()
- (b) Body covered with cuticle ()
- (c) Circular and longitudinal muscles present ()
- (d) Segmented body ()

14. The intermediate host of *Wuchereria bancrofti* is

- (a) pig ()
- (b) mosquito (*Culex*) ()
- (c) snail ()
- (d) sandfly ()

15. Parasitic helminths often lack a digestive system because

- (a) they are autotrophic ()
- (b) they absorb pre-digested nutrients from the host ()
- (c) they have advanced organs of digestion ()
- (d) they rely on symbiotic bacteria ()

SECTION—II

(Marks : 10)

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

1. *Amoeba*

2. Locomotion in *Paramecium*

3. Bilateral symmetry

3. Bilateral symmetry

(10)

Write short notes on any five of the following : 2×5=10

1. Amoeba

4. Sponges

5. Polymorphism

6. Tapeworm

7. Filariasis

Bs/Zoo/M1(T)/61

[13]

10/11/61 [P.T.O.]

7. Filariasis

© Tapscott

Bs/Zoo/M1(T)/61

[14]

26L—300