

2025

(FYUGP)

(3rd Semester)

ZOOLOGY

(MINOR)

Paper Code : ZOO/M3

(Diversity of Chordates)

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 an outline classification of the phylum Chordata. 10

Or

What are hemichordates? Describe the general characteristics of Hemichordata.

1+9=10

2. Explain the echinoderm theory of origin of Chordates. Add a note on dipleurula concept.

7+3=10

Or

Classify cyclostomes up to order with examples.

10

3. Give the general characteristics of class Chondrichthyes.

10

Or

Give a detailed account on parental care in amphibians.

4. Write the general characteristics of Reptilia and classify up to order.

10

Or

Write notes on the following :

5+5=10

(a) Flight adaptations in birds

(b) Migration in birds

5. Give the general characteristics of Mammalia.

10

Or

Write an account on the affinities of Prototheria.

Subject Code : Bs/ZOO/M3

To be filled in by the Candidate

BA / BSc / BCom / BBA / BCA
3rd 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**

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Date Stamp

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To be filled in by the
Candidate

BA / BSc / BCom / BBA / BCA
3rd Semester End Term
Examination, 2025 (FYUGP)

Roll No.

Regn. No.

Subject

Paper

DESCRIPTIVE TYPE

Booklet No. B

Signature of
Invigilator(s)

2025

(FYUGP)

(3rd Semester)

ZOOLOGY

(MINOR)

Paper Code : ZOO/M3

(Diversity of Chordates)

(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. Which of the following is a characteristic of cephalochordates?

- (a) Absence of post-anal tail ()
- (b) Presence of backbone ()
- (c) Persistent notochord throughout life ()
- (d) Sessile adult stage ()

2. Retrogressive metamorphosis is a feature of which subphylum?

- (a) Vertebrata ()
- (b) Hemichordata ()
- (c) Cephalochordata ()
- (d) Urochordata ()

3. Which of the following subphyla is not included in phylum Chordata?

- (a) Hemichordata ()
- (b) Urochordata ()
- (c) Cephalochordata ()
- (d) Echinodermata ()

4. The term 'dipleurula' refers to

- (a) an extinct protochordate ()
- (b) a larval form of echinoderms ()
- (c) an adult cephalochordate ()
- (d) a vertebrate ancestor ()

5. Which structure is replaced by the vertebral column in vertebrates?

- (a) Brain ()
- (b) Notochord ()
- (c) Pharynx ()
- (d) Endostyle ()

6. Members of Agnatha are also known as

- (a) gnathostomes ()
- (b) jawless vertebrates ()
- (c) protochordates ()
- (d) amniotes ()

7. Which of the following fishes belongs to the class Osteichthyes?

- (a) Scoliodon ()
- (b) Trygon ()
- (c) Labeo ()
- (d) Torpedo ()

8. Which of the following is a characteristic feature of Chondrichthyes?

- (a) Bony skeleton ()
- (b) Cartilaginous skeleton ()
- (c) Air bladder present ()
- (d) Operculum present ()

9. Which fish shows male parental care by brood pouch?

- (a) Tilapia ()
- (b) Labeo ()
- (c) Seahorse (*Hippocampus*) ()
- (d) Salmon ()

10. *Sphenodon* is often called a 'living fossil' because

- (a) it is extinct ()
- (b) it has mammalian features ()
- (c) it shows primitive reptilian features unchanged over millions of years ()
- (d) it migrates annually ()

11. *Archaeopteryx* is considered a connecting link between

- (a) amphibians and reptiles ()
- (b) birds and reptiles ()
- (c) mammals and birds ()
- (d) fishes and amphibians ()

12. The venom in snakes is produced by

- (a) tongue ()
- (b) salivary glands ()
- (c) maxillary glands ()
- (d) poison glands ()

13. Which order includes egg-laying mammals?

- (a) Marsupialia ()
- (b) Placentalia ()
- (c) Prototheria ()
- (d) Carnivora ()

14. The term 'adaptive radiation' refers to

- (a) adaptation to temperature ()
- (b) radiation energy in organisms ()
- (c) evolution of different species from a common ancestor ()
- (d) sudden extinction ()

15. The Australian realm is unique for the presence of

- (a) placental mammals ()
- (b) marsupials and monotremes ()
- (c) large primates ()
- (d) ungulates ()

SECTION—II

(Marks : 10)

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

2×5=10

1. Cephalochordata

2. Retrogressive metamorphosis

(Marks: 10)

Write short notes on any five of the following:

2x5=10

1. Cephalochordata

(a) *Amphioxus* in *Yanus collaris* (b)

(c) *Amphioxus* a small species from a common ancestor (d)

(b) *Amphioxus* (d)

15. The Australian realm is unique for the presence of

(a) placental mammals (b)

(b) marsupial mammals (c)

(c) large primates (d)

(d) ungulates

3. Agnatha

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[11]

[P.T.O.]

4. Osmoregulation in fishes

5. Archaeopteryx

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[13]

[P.T.O.]

6. Mammalian affinity with Prototheria

7. Osmoregulation

Booklet No. A

Date Stamp

To be filled in by the Candidate

BSc / BCom / MBA / BCA

3rd Semester End Term

Examination, 2025 (PYQs)

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Roll No.

Regd. No.

Subject

Paper

DESCRIPTIVE TYPE

Booklet No. B

Bs/ZOO/M3/129

Signature [15]

Space 26L-300

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