

U.G. 2nd Semester Examination-2025

ZOOLOGY

[MAJOR]

Course Code : ZOO-MJ-T-201

(Introduction to Chordate Diversity and Its
Zoogeographical Distribution)

[NEP-2020]

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in
their own words as far as practicable.*1. Answer any **five** questions of the following:

2×5=10

- a) What is "Ampullae of Lorenzini"? Write its occurrence and function.
- b) Mention one characteristic feature of cyclostomata with one example.
- c) Differentiate between Chondrichthyes and Osteichthyes.
- d) Why hemichordates are known as half chordates?

[Turn Over]

- e) Differentiate between Prototheria and Metatheria with example.
- f) What is labyrinthine organ and where it is found?
- g) How Skates differs from Rays?
- h) What are the components of "Weberian Ossicles"? Where it is found?

2. Answer any two questions of the following:

5×2=10

- a) Define the term retrogressive metamorphosis. Write a short note on retrogressive metamorphosis in *Ascidia*. 2+3
- b) Describe mechanism of digestion in *Branchiostoma* with special reference to significance of hepatic diverticulum. What is Lissamphibia? 3+2
- c) Explain continental drift theory. How many Zoogeographical realms are there in the world? Mention their names. 2+1+2
- d) Write four distinguishing features of lacertilia and ophidia. Give example. 4+1

3. Answer any two questions of the following:

10×2=20

- a) Distinguish between ratitae and carinatae. How do birds navigate such a long distance during their migration between different continents? State the factors that controls migration of bird. 4+3+3
- b) Classify Amphibia with characteristic features up to living orders with suitable examples. Write a short note on origin of Chordates in the light of Echinoderm theory. What is Paedogenesis? 4+4+2
- c) Distinguish between poisonous and non-poisonous snakes. What is fang? State the Proteroglypha and Opisthoglypha types of fangs. Describe the biting mechanism of snake with suitable diagram. 2+1+3+4
- d) Define the term "fish migration". Describe anadromous and catadromous migration of fishes with suitable example. What do you mean by plate tectonic? 2+6+2