

Post Graduate Teaching Department of Zoology

**An Autonomous Department of
RTM, Nagpur University, Nagpur
M. Sc. Zoology Semester -II (CBCS-NEP)**

Theory Examination Summer-2024

Paper: 2T1, Structure and Function of Chordates

Time: 3 hrs.

Maximum Marks: 60

Note:

- 1. All questions are compulsory.**
- 2. All questions carry equal marks.**
- 3. Draw suitable diagrams wherever necessary.**

1. Describe in detail the origin and ancestry of phylum chordata.

OR

Write notes on: -

- (a) Characteristic features and affinities of cephalochordata.**
- (b) Development of amoecotus larva.**

2. Compare the organs and mechanism of respiration in pisces and amphibia.

OR

Write notes on: -

- (a) Derivatives of integument in vertebrates.**
- (b) Jaw suspension in vertebrates.**

3. Explain in detail evolution of kidney and excretion in vertebrates.

OR

Write notes on: -

- (a) Origin of birds.**
- (b) Aquatic and terrestrial adaptive radiations.**

4. Describe in detail the structure and functions of autonomous nervous system in vertebrates.

OR

Write notes on: -

- (a) Evolution of heart in vertebrates.**
- (b) Echolocation.**

5. Write in brief on followings: -

- (a) Affinities of dipnoi.**
- (b) General body organization in chelonia.**
- (c) Latitudinal migration in birds.**
- (d) Oligocene primates.**