

92272

B.Sc. 4th Semester (New Scheme) (Fresh and Re-Appear)

Examination, May-2023

BIO-TECHNOLOGY

Paper- BT-401

Animal Diversity

Time allowed : 3 hours]

[Maximum marks : 40

*Note : Question No.1 is compulsory. Attempt four more questions by selecting one question from each unit. All questions carry equal marks.*

1. Write the short notes on the following. 8×1=8
- (a) Branchiostoma
  - (b) Two differences between bony & cartilage fish
  - (c) Dinosaurs
  - (d) Study of snake is called
  - \* (e) Anatomy
  - (f) Evolutionary history
  - (g) Fertilization
  - (h) Visceral organ

**Unit-I**

2. What is Chordate? Give detail description of the origin of Chordates. 8
3. Write the notes on any two: 4×2=8
- (a) ✓ Classification of Amphibian

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(b) Paedogenesis

(c) Important characters of Herdmania

### Unit-II

4. Write the notes on any two: 4×2=8

(a) Basic feature of mammals

(b) Basic feature and origin of Reptile

(c) Dentition in mammals

5. What is avian? Describe their origin and flight-adaptations. 8

### Unit-III

6. Describe the comparative anatomy of various respiratory organs of vertebrates 8

7. Describe the comparative anatomy of various glands present in the skin of the vertebrates 8

### Unit-IV

8. Give detail description of the mammalian autonomic nervous system 8

9. Write the short notes on the comparative anatomy of any two: 4×2=8

(a) Heart

(b) Eye of vertebrates

(c) Kidney