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**B.M.S COLLEGE FOR WOMEN**  
**BENGALURU – 560004**

**V SEMESTER END EXAMINATION – JAN/FEB - 2024**

**B.Sc – ZOOLOGY - CHORDATES & COMPARATIVE ANATOMY**  
**(NEP Scheme 2021-22 Onwards)**

**Course Code: ZOO5DSC06**

**Duration: 2 ½ Hours**

**QP Code: 5029**

**Max. Marks: 60**

**Instructions to Candidates:**

- 1. Draw neat labelled diagram wherever necessary.*
- 2. Answer should be completely in English.*

**PART-A**

**I. Answer the following in one word or one sentence**

**(5X1=5)**

1. Name the animal in which notochord does not persists in adult.
2. What are bony armoured prehistoric fishes called?
3. Give an example for an animal exhibiting paedogenesis.
4. What type of skull is present in chelone.
5. Name the covering of the heart.

**PART-B**

**II. Answer any FIVE of the following**

**(5X3=15)**

1. With reference to amphioxus give the function of the following:
  - a) Buccal cirri
  - b) Wheel organ
  - c) Myotome
2. Name the sub classes of the class Mammalia with an example each.
3. List any three the interesting features of Dipnoi.
4. Sketch and label Diapsid skull.
5. Explain parental care in sea horse and Tilapia.
6. Write a brief note on air sacs of birds.
7. Sketch and label dorsal view of heart of shark.

**PART-C**

**III. Answer any FOUR of the following**

**(4X5=20)**

1. Explain the morphology of Herdmania with a neat labelled diagram
2. List the interesting features of the order chiroptera.

3. Give an account on various types of scales in fishes.
4. Explain anadromous migration with an example.
5. Describe the respiratory system of Scoliodon
6. Give an account on metanephric kidney.

**PART-D**

**IV. Answer any TWO of the following**

**(2X10=20)**

1. Describe the digestive system of amphioxus with suitable diagrams.
2. Write notes on:
  - a) Unique features of class Reptalia
  - b) Interesting features of order Carnivora
3. Write a note on flight adaptations in birds
4. Compare the evolutionary trends in the brain of fish and frog.

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