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V Semester B.Sc. Degree Examination, March/April - 2024

ZOOLOGY

Chordates and Comparative Anatomy

(NEP Scheme Freshers)

Paper : VI



Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

1. Answers only in English.
2. Draw diagrams wherever necessary.

PART - A

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

(5×1=5)

1. Name a Jawless vertebrate.
2. What is Dipnoi Commonly known as?
3. Which period is called the golden period of reptiles.
4. What type of scales are present in cartilaginous fishes.
5. What is venous heart?

PART - B

II. Answer any FIVE of the following.

(5×3=15)

1. With reference to Amphioxus, mention the function of the following.
 - a) Buccal cirri
 - b) Fins
 - c) Myotomes.
2. Mention the three subclasses of class Mammalia with an example.
3. List the salient features of placoderms.

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4. Explain parental care in any two amphibians.
5. Give an account on the nutritive value of egg.
6. Write a note on air sacs of birds.
7. Sketch and label the dorsal view of the heart of scoliodon.

PART - C

III. Answer any FOUR of the following.

(4×5=20)

1. Explain the morphology of Herdmania with a neat labelled diagram.
2. Mention the interesting features of cetacea.
3. Give an account on Neoteny and Paedogenesis.
4. Describe the 'Anapsid' and 'Diapsid' skull of Reptiles.
5. Sketch and label the respiratory system of Man.
6. Write a note on Mesonephric kidney.

PART - D

IV. Answer any TWO of the following.

(2×10=20)

1. Describe the digestive system of Amphioxus with suitable diagram.
 2. Write notes on:
 - a) Unique features of class Reptilia.
 - b) Interesting features of Primates.
 3. Explain :
 - a) Anadromous migration
 - b) Types of molar tooth in Mammals.
 4. Compare the evolutionary trends in the brain of Frog and Man.
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