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Total No. of Printed Pages: [01]

Total No. of Questions: [09]

**B.Sc. - M.Sc. (Forensic Science) (Semester – 2<sup>nd</sup>)**

**DIVERSITY OF ANIMALS-II**

**Subject Code: BMFSS1-205**

**Paper ID: 23480116**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

Q1. Attempt the following:

- a. Name different larval forms found in protochordates.
- b. What do you mean by agnatha?
- c. Give characteristic features of hemichordates. Name two animals belonging to it.
- d. What is Dipleurula concept? Write down the echinoderm theory of origin of chordates.
- e. Differentiate between Chondrichthyes and Osteichthyes
- f. Write short note on migration of fish.
- g. Classify amphibian upto order level. Give example of each.
- h. Write in brief the affinities of sphenodon.
- i. Define zoogeographical realms. Mention different zoogeographical regions.
- j. Write down characteristic features of class mammalia.

**Section – B**

**(5 marks each)**

- Q2. What are the advanced characteristic features of vertebrates over the protochordates?
- Q3. Explain the poison apparatus and biting mechanism of snakes.
- Q4. Give an account of parental care in amphibians.
- Q5. Describe the adaptive radiation with reference to locomotory appendages.
- Q6. Write down the theories pertaining to zoogeographical distribution of animals.

**Section – C**

**(10 marks each)**

- Q7. Describe the process of retrogressive metamorphosis in urochordata.
- Q8. Explain the principle of aerodynamics in flight of birds. Write down various adaptations for flight in birds.
- Q9. Give a detailed account on osmoregulation in fishes.