Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [09]

B.Sc. - M.Sc. (Forensic Science) (Semester – 2nd)
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.