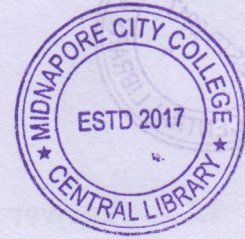


PG (NEW) CBCS
M.Sc. Semester-I Examination, 2018
ZOOLOGY
PAPER: ZOO-101
 (Non- Chordates & Chordates)

**Full Marks: 40****Time: 2 Hours**

The figures in the margin indicate full marks.

Candidates are required to give their answer in their own words as far as practicable.

Illustrate the answers whenever necessary.

Use separate Answer Scripts for Group-A & Group-B

Group A

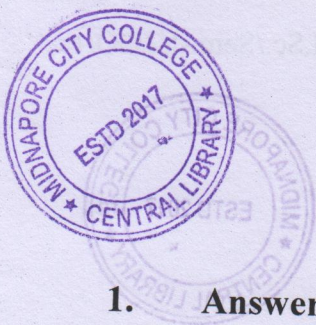
(Non-chordates)

1. **Answer two questions from the following:** **2×2=4**
 - a) What do you mean by keystone species? Cite an example.
 - b) What is Corona? In which phyla corona is found?
 - c) Write difference between Protostomia and Deuterostomia.
 - d) Mention diagnostic features of Foraminifera.

2. **Answer any two of the following questions:** **2×4=8**
 - a) What is cyclomorphosis? Write the mode of cyclomorphosis in rotifera. **4**
 - b) Mention the ecological importance of free living nematodes. **4**
 - c) Describe the feeding apparatus of Bryozoa. **4**
 - d) Mention the importance of larval forms in aquatic life. **4**

3. **Answer any one of the following questions:** **1×8=8**
 - a) Define larva. Write the significance of larval study. Discuss the salient features of Haeckel's theory on metazoan evolution. **1+2+5=8**
 - b) What is mastax? Briefly describe different types of mastax. Write the function of mastax. **1+5+2=8**

(Turn Over)



Group B
(Chordates)

1. **Answer two questions from the following:** **2×2=4**
- a) Give one example for each of the following order:
i) Perciformes ii) Siluriformes.
- b) Write two differences between Cephalochordata and Urochordata.
- c) Why Hemichordata are separated from Protochordata.
- d) Differentiate mesonephros from pronephros.
2. **Answer any two of the following questions:** **2×4=8**
- a) Write location and function of endostyle in protochordata. **4**
- b) State the significance of swimbladder in fishes. **4**
- c) Write a note on osmoregulation in marine fish. **4**
- d) What do you mean by echolocation? Write physical modification in bat for echolocation. **2+2=4**
3. **Answer any one of the following questions:** **1×8=8**
- a) Discuss evolution of primates with special reference to Homo sapiens sapiens. **8**
- b) Draw a labelled diagram of endostyle of a protochordate. Write down the fate of endostyle in course of evolution. State the problems of marine fishery in India. **4+2+2=8**
