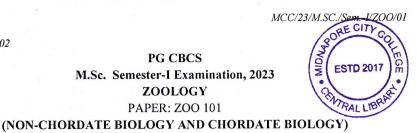
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PG CBCS M.Sc. Semester-I Examination, 2023 ZOOLOGY

PAPER: ZOO 101



#### Full Marks: 40

**Time: 2 Hours** 

 $2 \times 2 = 4$ 

 $2 \times 4 = 8$ 

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

### Write the answer for each unit in separate sheet

# UNIT: ZOO 101.1 NON-CHORDATE BIOLOGY

### **GROUP-A**

### 1. Answer any TWO from the following questions:

a) What do you mean by Ecdysozoan phyla?

b) What is maxtax? What is its function?

c) Define coelom. Write its position in non-chordate body.

d) What do you mean by Umbrella species? Give an example.

## **GROUP-B**

### 2. Answer any TWO from the following questions:

a) Discuss about evolution of cephalization in Metazoa.

b) Write a note on any two important roles of C. elegans in ecosystem.

c) State the ecological importance of Foraminifera.

d) Write a note on auricularia larvae in Echinoderms with diagram.

## **GROUP-C**

## 3. Answer any ONE from the following questions:

 $1 \times 8 = 8$ 

a) Elaborate the feeding mechanism in Bryozoans. Comment on cyclomorphosis in Rotiferans. 6 + 2

b) Write in depth about importance of

i) Conservation of invertebrates and their conservation strategies in India.

ii) Add a note on different causes behind the decline of invertebrates' population.

4 + 4

(P.T.O)

#### MCC/23/M.SC./Sem.-I/ZOO/01

 $2 \times 2 = 4$ 

 $2 \times 4 = 8$ 

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# UNIT: ZOO 101.2 CHORDATE BIOLOGY

# **GROUP-A**

# 4. Answer any <u>TWO</u> from the following questions:

a) What is the significance of jaws in human evolution?

- b) What is mesonephric kidney? Give example.
- c) What is endostyle?
- d) State any two functions of swim bladder in fishes.

## **GROUP-B**

# 5. Answer any <u>TWO</u> from the following questions:

- a) Enumerate the point of differences between the respiration in elasmobranchs and teleosts.
- b) Differentiate between old world and new world monkeys.
- c) Describe the process of osmoregulation in fresh water fish.
- d) Describe the role of antidiuretic hormone in excretion in vertebrates.

# **GROUP-C**

# 6. Answer any <u>ONE</u> from the following questions:

1×8=8

a) Describe the morphological adaptations of echolocation in bats.

b) Describe the process of iodine binding mechanism in protochordates.