

**H-4/35(A)/22**

Roll No. ....

**IV Semester Examination, 2022****M.Sc.****ZOOLOGY**

Paper IV

(Ichthyology)

Time : 3 Hours ]

[ Max. Marks : 80

**Note :** All questions are compulsory. Question Paper comprises of 3 sections. Section **A** is objective type/multiple choice questions with no internal choice. Section **B** is short answer type with internal choice. Section **C** is long answer type with internal choice.

**SECTION A****1×8=8****(Objective Type/Multiple Choice Questions)***Choose the correct answer :***1.** This is living fossil :

- (a) Lapidosiren      (b) Latetimeria  
(c) Lepiosteus      (d) None of these

**2.** This is migratory fish :

- (a) Ribbon fish      (b) Carp  
(c) Salmon      (d) Shark

P.T.O.

**3.** Placoid scales are found in :

- (a) Palentological fishes  
(b) Leing fishes  
(c) Bony fishes  
(d) Cartilagenous fish

**4.** Parental care by males is found in :

- (a) Hippocampus      (b) Labeo  
(c) Anabes      (d) Whales

**5.** Most venomous fish is :

- (a) Electric ray      (b) Saw fish  
(c) Stone fish      (d) Dog fish

**6.** Maltase cross is found in :

- (a) Brain of shark      (b) Intestine of shark  
(c) Verlebra of shark (d) Teeth of shark

**7.** Sucking mouth is present in :

- (a) Ostracoderms      (b) Lampreys  
(c) Hag fishes      (d) Sharks

**8.** Which of the following fishes is viviperous ?

- (a) Salmons      (b) Lamprey  
(c) Shark      (d) Chimeras

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**SECTION B****6×4=24****(Short Answer Type Questions)**

**Note :** Attempt *one* question from each unit. Answer not more than 400-450 words.

**Unit-I**

1. Write the significance of colouration.

*Or*

Write the types of locomotion in fishes.

**Unit-II**

2. What is the function of electric organ ?

*Or*

What is the condition of deep sea ?

**Unit-III**

3. What specific adaptation found in Buccopharynx of Teleosts fishes ?

*Or*

Write digestion of food in fishes.

**Unit-IV**

4. Write the osmoregulation in fresh water fishes.

*Or*

Draw the labelled diagram of membranous labyrinth of teleosts.

**SECTION C****12×4=48****(Long Answer Type Questions)**

**Note :** Attempt *one* question from each unit. Answer not more than 400-450 words.

**Unit-I**

1. Describe the types of fins in fishes.

*Or*

Describe the skin of fish.

**Unit-II**

2. Explain the adaptation in the Hill stream fishes.

*Or*

Explain the adaptation in deep sea fishes.

**Unit-III**

3. Explain the structure of weberion ossicles found in fishes.

*Or*

Explain the swim bladder found in fishes.

**Unit-IV**

4. Draw the labelled diagram of Brain.

*Or*

Draw the labelled diagram of excretory system.

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