

G-4/444(A)/21

Roll No.

M.Sc. IV Semester Examination, 2021

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 Questions)

Choose the correct answer :

1. Sucking mouth and rasping tongue is present in :
(a) Ostracoderms (b) Hag fishes
(c) Lampreys (d) Sharks
2. The armoured fishes are :
(a) Chondrichthyes (b) Osteichthyes
(c) Placoderm (d) Acanthodians
3. Which of the following aortic arches form pulmonary artery in wing fishes ?
(a) III (b) IV
(c) V (d) VI

P.T.O.

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4. Elasmobranchs remove sodium chloride through :
(a) Gill (b) Rectal gland
(c) Kidney (d) Liver
5. Rat fishes are :
(a) Lamprey (b) Sharks
(c) Astrachoderm (d) Chimeras
6. Which of the following does not have lateral line organs ?
(a) Whale
(b) Sharks
(c) Common Indian dog fish
(d) Aquatic urodeles
7. Most venomous fish is :
(a) Electric fish (b) Saw fish
(c) Stone fish (d) Dog fish
8. Large rostrum is found in :
(a) Paddle fishes (b) Lamprey
(c) Sharks (d) Chimeras

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SECTION B

6×4=24

(Short Answer Type Questions)

Note : Answer in 250 words. Attempt one question from each unit.

Unit-I

1. Describe the types of scales found in fishes.

Or

Explain the mechanism of light production.

Unit-II

2. Explain the type of Anadromous and Catadromous fishes.

Or

Explain the electricity produce by electric ray.

Unit-III

3. Describe the feeding habit of fishes.

Or

Describe the structure of heart of fish.

Unit-IV

4. Draw the labelled diagram of eye of fish.

Or

Draw the labelled diagram of brain of fish.

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SECTION C

12×4=48

(Long Answer Type Questions)

Note : Answer in 400-500 words. Attempt one question from each unit.

Unit-I

1. Describe the colouration in fishes.

Or

Describe the light production in fishes.

Unit-II

2. Explain the parental care in fishes.

Or

Explain the hill stream fishes.

Unit-III

3. Explain the Respiratory system in fishes.

Or

Explain the accessory respiratory organs.

Unit-IV

4. Explain the structure of spinal cord and function of it.

Or

Explain the structure and working of ear.

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