SECTION 'C'

Long Answer questions (Word limit 400-450 words.)

UNIT-I

Q. 1. Give detail account of Elasmobranchii, their origin, evolution and phylogeny.

OR

Describe the general character, origin and phylogeny of Teleostomi.

UNIT-II

Q. 2. Write an essay on stocking and transport of fish seed and brood fish.

OR

Describe the physic chemical condition of water and its effect on fishes.

UNIT-III

Q. 3. Write an essay on prawn fishery.

OR

Give detail accounts on marine fisheries of India.

UNIT-IV

Q. 4. What are the main helminth parasites of fishes? Describe the diseases caused by them.

OR

Write an essay on viral diseases of fishes.

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[1]

IV SEMESTER EXAMINATION, 2021

M.Sc. (ZOOLOGY)

PAPER-IV

AQUACULTURE & FISHERIES

TIME: 3 HOURS

MAX.- 80 MIN.- 16

Note: The question paper consists of three sections A, B & C. All questions are compulsory.

Section A- Attempt all MCQ questions

Section B- Attempt one question from each unit. Section C- Attempt one question from each unit.

SECTION 'A' $2 \times 8 = 16$ Multiple Choice Questions

- 1. Rat fishes are -
 - (a) Salmons

b) Lamprey

(c) Sharks

- (d) Chimeras
- 2. The armored fishes are -
 - (a) Chondrichthyes

(b) Osteichthyes

(c) Placoderms

- (d) Acanthodians
- 3. Fish production is practiced with -
 - (a) Maize crop

(b) Paddy

(c) Wheat

(d) Pulse

4.	Scientific	name	αf	Manor	ıric	_
┰.	Scientific	mamic	OI	mange	11 13	

- (a) Trichogaster Ficciatus
- (b) Clarias batrachus
- (c) Xentodon cancila
- (d) Tanchysurus Sona
- 5. Fish are called fry, when -
 - (a) They hatch from eggs
 - (b) While they are larvae
 - (c) When they are capable of feeding themselves
 - (d) None of the above
- 6. Crustacean fishery is connected with exploitation of -
 - (a) Oyesters and crabs
 - (b) Mussels and squids
 - (c) Shells and cuttle fish
 - (d) Lobsters and prawns
- 7. Black-Spot disease of marine fishes is caused by -
 - (a) Retrovirus
 - (b) Dinoflagellates
 - (c) Ichthyopthirius multifillis
 - (d) Flat Worm
- **8.** Which of the following is a 'Bacterial Disease'.
 - (a) Velvet disease
 - (b) Costiasis
 - (c) Fin-rot
 - (d) Cilodon-disease

SECTION 'B'

 $4 \times 6 = 24$

Short Answer Type Questions

UNIT-I

Q.1. Give the evolution, phylogeny and general characteristics of Holocephali.

OR

Describe the distribution and characteristics of Diphoi Fishes.

UNIT-II

Q.2. Write a note on pond management for fish culture.

OR

What is dry and wet bundh breeding? Explain with suitable diagram.

UNIT-III

Q.3. Write the importance of Sewage fisheries.

OR

Write about the composition of fishes in composite fish culture.

UNIT-IV

Q.4. Write about the main protozoan diseases of fish.

OR

Write a note on prophylaxis and treatment of fish disease.