2017

AQUACULTURE MANAGEMENT

[Honours]

PAPER -I

Full Marks: 90

Time: 4 hours

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their

own words as far as practicable

Illustrate the answers wherever necessary

- 1. Answer any ten questions from the following:
 - 2×10
 - (a) Define Periphyton. Give two examples.
 - (b) Define EEZ.
 - (c) What is Arborescent organ of fishes? State its function.

- (d) Differentiate between penacid and non-penacid shrimp.
- (e) Differentiate between major carp and minor carp.
- (f) Name the traditional gears used in fishing in West Bengal.
- (g) Define haematopoiesis.
- (h) What are fishery Resources of chilika lake?
- (i) Differentiate between estuary and reservoir.
- (j) What is clasper? Mention its function.
- (k) What is positive and negative estuary?
- (1) Define Gonado Somatic Index (GSI) of a fish.
- (m) Name 4 exotic fishes along with their country of origin.
- (n) Write the function of gill racker.
- (o) What is gastric and agastric fish?

GROUP - A

2.	Answer any two questions:			
	(a) (i)	Describe the morphometric meristic characteristics of taxon significance of fish.	and omic	

- (ii) Describe the distinctive characteristics of order perciformes with examples. 5 + 5
- (b) (i) What are the factors affects food and feeding habits of fishes?
 - (ii) How to estimate the age of fishes?

 Illustrate in detail. 5+5
- (c) (i) Describe osmoregulatory process in anadromous fishes.
 - (ii) Explain the respiratory mechanism of any one fishes. 5+5
- (d) (i) Give an account on marking and tagging and its importance.
 - (ii) Write briefly on digestive system of prawn. 5 + 5

 10×2

3	Answer any one of the	following:	15×1
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- (a) (i) Give the taxonomic classification of Tennalosa ilisha.
 - (ii) Describe the hormonal control of fish reproduction. 5 + 10
- (b) (i) Give an account on nervous system of prawn.
 - (ii) Describe in detail about urinogenital system of any one fresh water fishes.

$$GROUP - B \qquad \qquad 7\frac{1}{2} + 7\frac{1}{2}$$

- 4. Answer two questions from the following: 10×2
 - (a) Give a brief account on major riverine system
 in India, and its fisheries resources. Add brief
 note on river ranching.
 - (b) (i) Briefly explain the inland capture fishery resources in India.
 - (ii) Briefly narrate the problems of lake fishery.

Matlah estuary in brief.

water fisheries in India.

(c) (i) Mention the present status of cold

(iii) Add a note on fisheries of Hooghly

4 + 4 + 2

(Turn Over)

		(ii)	Write briefly on brackish water shrin	mp
			farming.	5 + 5
	(d)	(i)	Explain the conservation strategies Indian reservoirs.	of
(ii) Mention the beneficial			Mention the beneficial uses of Remo	ote
		` '	sensing in marine capture fisheries.	
5. Answer any one question:			any one question:	15 × 1
	(a)	(i)	Give an account on the mackerel fish of India.	ery
	(ii) Enlist the factors affecting spawning			and
			fecundity of fishes.	10 + 5
	(b)	Wr	ite short notes on:	3 × 5
		(i)	Offshore fisheries	

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- (ii) Potential Fishing Zone (PFZ)
- (iii) Deep Sea Fisheries
- (iv) Cage culture
- (v) Wet lands.