## 6/H-36 (vii) (Syllabus-2015)

2023

( May/June )

## FISHERY SCIENCE

( Honours )

Paper: 7A

## ( Advanced Aquaculture )

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 and any four from the rest

- 1. Write short notes on any three of the following: 4×3=12
  - (a) Seaweed resources in India
  - (b) Antinutritional factors in plant-based fish feed
  - (c) Common air-breathing fishes of India
  - (d) Exotic ornamental fishes of India
  - (e) Pen culture

2.	the race	nt are raceways in aquaculture? Describe management of trout farming in ways with reference to water quality, king density and feeding.	11
3.	(a)	What is cage culture? What are the advantages and constraints of cage culture?	s=4
	(b)	Explain site and species selection criteria for cage culture.	7
4.	Des	at is fish nutritional bio-energetics? cribe energy partitioning patterns ociated in utilization of food energy in 2+9=	:11
5.	(a)	Differentiate oviparous and ovoviviparous ornamental fishes giving suitable examples.	4
	(b)	Explain captive breeding technique of gold fish, Carassius auratus.	7
6.			11
7.	(a)	Write the benefits and constraints of using sewage in fish culture.	6
	(b)	Explain the sewage treatment process	

carried out before using for fish farm.

- 8. Write short notes on any two of the following:  $5\frac{1}{2}\times2=11$ 
  - (a) Broodstock nutrition with reference to Indian major carp
  - (b) Edible and pearl oyster of India
  - (c) Native ornamental fishes of NE India

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