6/H-36 (viii) (Syllabus-2015)

2023

(May/June)

FISHERY SCIENCE

(Honours)

Paper: 8A

(Fish Breeding and Hatchery Management)

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) Types of reproduction in fish
 - (b) Significance of migration
 - (c) Criteria of selection of brood fishes for induced breeding
 - (d) Sexual dimorphism in fish
 - (e) Procurement of air-breathing fish seeds from natural sources

2.	(a)	Define courtship behaviour in fish.	4
	(b)	Discuss parental care in fishes giving examples.	7
3.	(a)	Define the breeding cycles in fish.	4
	(b)	Describe the different stages in the maturation of gonads in fish.	7
4.	(a)	What do you understand by induced breeding in fish?	4
	(b)	Describe the factors affecting induced breeding of fish.	7
5.	(a)	Describe the different types of migration pattern in fish.	7
	(b)	Mention the causes of migration.	4
6.	Desc	cribe the structure and function of the e and female reproductive organs in fish.	11
7.	(a)	Mention the different types of carp hatchery in India.	4
	(b)	Describe the design of a modern carp eco-hatchery.	7

- 8. Write short notes on any two of the following: $5\frac{1}{2}\times2=11$
 - (a) Spawning behaviour in fish
 - (b) Post-larval development in carp
 - (c) Broodstock nutrition with reference to carps
