

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

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(April)

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) Sexual dimorphism in fish**
- (b) Gonado-somatic index**
- (c) Gametogenesis**
- (d) Dry bundh method for induced breeding
of carps**
- (e) Design of a eco-hatchery for fish
breeding**

(Turn Over.)

2. Describe the different types of reproduction in fish and explain courtship behaviour. 7+4=11
3. Discuss anadromous and catadromous migration giving examples. Write the significance of migration in fish. 7+4=11
4. How is fish seed procured and transported from natural sources? Mention the advantages and disadvantages of the fish seed collection from natural sources. 6+5=11
5. Describe breeding cycles in fish and write a note on post-larval development. 7+4=11
6. What do you understand by hypophysation technique? Mention the factors affecting induced breeding. 11
7. Describe the different types of carp hatchery giving their advantages and disadvantages. 11
8. Write short notes on any two of the following : 5½×2=11
 - (a) Parental care in fish
 - (b) Brood stock management
 - (c) Components of an eco-hatchery

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2019

(April)

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) Management of trout farm**
- (b) Larvicidal fish and its importance**
- (c) Brood stock nutrition**
- (d) Sea-weed fisheries**
- (e) MPEDA and its activities**

(Turn Over)

2. Describe in detail about cage culture. Explain the importance of cage culture in relation to NE India. 7+4=11
3. (a) Describe the natural food of fishes in relation to their feeding habits. 6
- (b) Explain the importance of FCR in preparation of fish feed. 5
4. (a) Write the characteristics of ornamental fishes. 6
- (b) Describe some important ornamental fishes of North-East India. 5
5. (a) List the important culturable air-breathing fish of India. 5
- (b) Describe the prospects of air-breathing fish culture in North-East India. 6
6. (a) Discuss the ecology of brackish water pond. 5
- (b) Describe about the scope of brackish water farming in India. 6

7. (a) What is the importance of an aquarium? Describe the method of setting up of glass aquarium with suitable sketches. 2+5=7
- (b) Explain about the maintenance of an aquarium. 4
8. Write short notes on any two of the following : 5½×2=11
- (a) Sewage treatment for fish culture
- (b) Edible oyster culture
- (c) Game fish and its importance
