

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

2018

(April)

FISHERY SCIENCE

(Honours)

Paper : VIIIA

(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) Parental care in fishes

(b) Gametogenesis

(c) Transportation of fish seed from natural sources

(d) Wet and dry bundh methods for induced breeding

(e) Brood stock management

(Turn Over)

2. What are the causes of fish migration? Describe the different types of migration patterns in fish. 4+7=11
3. Describe with examples the different types of reproduction in fish. 11
4. Discuss the effect of hormones on the maturation of gonads. Write about the embryonic development in fish. 6+5=11
5. How is fish seed procured from natural sources? Give the advantages and disadvantages with respect to quality and quantity. 6+5=11
6. What do you understand by Induced Breeding in fish? Describe the different hormones or chemicals used mentioning the dosage. 5+6=11
7. Describe the design of a Chinese Eco-hatchery. 11
8. Write short notes on any *two* of the following : 5½×2=11
 - (a) Courtship and spawning behaviour
 - (b) Gonado-somatic index
 - (c) Factors affecting Induced Breeding
