

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

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(May/June)

FISHERY SCIENCE

(Honours)

(Fish Breeding and Hatchery Management)

Paper : 8A

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) Procurement of carp seed from natural sources

(b) Different types of hormones used in induced breeding of fish

(c) Spawning behaviour of Indian major carps

(d) Seasonal changes of gonads in Indian major carps

(e) Wet-bundh methods for induced breeding of carps

(2)

2. (a) Define anadromous and catadromous fish giving examples. 4
(b) What are the causes of migration? 7
3. (a) What is hypophysation? Explain briefly the development of hypophysation technique in India. 5
(b) Describe the factors affecting induced breeding of fish. 6
4. (a) What are the different types of carp hatchery of India? 4
(b) Explain the design of modern carp eco-hatchery. 7
5. (a) What are the advantages and disadvantages of collection of fish seed from natural sources? 6
(b) Write about the criteria of selecting brood fish for induced breeding. 5
6. What are the different types of reproduction of fishes? Describe briefly the structure and function of female reproductive organ of fish. 5+6=11
7. (a) Define fecundity and Gonadosomatic Index. 4
(b) Describe the post-larval development of carp. 7

(3)

8. Write short notes on any two of the following : $5\frac{1}{2}\times 2=11$
- (a) Parental care of fishes
(b) Importance of induced breeding of fish
(c) Transportation and management of broodstock
