

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

**2 0 2 2**

**( 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

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