

4/EH-36 (iv) (Syllabus-2015)

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(May/June)

FISHERY SCIENCE

(Honours)

Paper—4A

(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) Concepts of aquaculture practices in
India**

**(b) Pond preparation for composite fish
culture**

(c) Intensive fish culture and its importance

(d) Horticulture-cum-fish culture

(e) Effect of algal bloom and its control

(2)

2. (a) Differentiate between capture and culture fisheries. 5
- (b) Give an overview of the status of culture fisheries in North-East India. 6
3. Discuss in detail about the classification of aquaculture on the basis of salinity, temperature and species. 3+4+4=11
4. (a) What are the principles of integrated fish farming? 5
- (b) Discuss and write a note on the advantages of integrated fish farming. 6
5. (a) What are the differences between monoculture and polyculture of fish? 4
- (b) Describe the importance of species selection, combination ratio and stocking density in composite fish farming. 7
6. (a) Describe the criteria of site selection and soil quality for fishpond construction. 6
- (b) Discuss the importance of lime and its doses for water quality management in a fish farm. 5

(3)

7. Describe different types of aquatic weeds that affect the fish culture. Discuss the control measures of aquatic weeds. 5+6=11
8. Write short notes on any *two* of the following : 5½×2=11
- (a) Conditions required for paddy-cum-fish culture
- (b) Duck-cum-fish farming
- (c) Control measures of predatory insects in nursery pond
