

M.Sc. 2nd Semester Examination, 2014

**AQUACULTURE MANAGEMENT
AND TECHNOLOGY**

(Aquaculture Management)

PAPER – AMT-201

Full Marks : 40

Time : 2 hours

The figures in the right-hand margin indicate marks

*Candidates are required to give their answers in their
own words as far as practicable*

Illustrate the answers wherever necessary

1. Answer four of the following : 2 × 4

(a) Distinguish between water-shed pond and excavated pond.

(b) What are the disadvantages of polyculture ?

(Turn Over)

(2)

- (c) Write the scientific names of brown algae and brown mussel.
- (d) How would you improve the colour of pearl ?
- (e) What are the differences between extensive and intensive aquafarming ?
- (f) State the advantages of Race-way culture.
- (g) Briefly explain the distribution of sea-weeds in Indian sub-continent.
- (h) What are mullets and murels ?

2. Answer *four* questions of the following : 4 × 4

- (a) Narrate the benefits of aquaculture from human perspectives. 4
- (b) Briefly describe the drainage system in aquaculture farm. 4
- (c) Discuss the present status of aquaculture in India. 4

(3)

- (d) What is sewage ? State its integration approach towards aquaculture. 1 + 3
- (e) Enlist the suggestive measures for future mariculture prospect in India. 4
- (f) Write the scientific names of American Catfish and African Catfish. Briefly explain the breeding technique of Asian Catfishes. 1 + 3
- (g) What are the constraints of sea-weed farming ? 4
- (h) State the major criteria to be considered for construction of an aquafarm. 4
3. Answer *two* of the following : 8 × 2
- (a) What is mono-culture ? State the advantages of mono-culture. Briefly discuss on the constraints of shrimp farming in Asian countries. 1 + 3 + 4
- (b) What is acerator ? Briefly explain different types of aeration systems used in aquaculture farm. Describe the impact of aquaculture on the environment. 1 + 4 + 3

(4)

(c) What is hatching and post larva ? Describe the induced breeding technique of *Macrobrachium rosenbergii*. Write a note on status of fresh water prawn farming in India. 2 + 3 + 3

(d) Write short notes on (any two) : 4 × 2

(i) Cage culture

(ii) Pearl formation

(iii) Disease management of Indian Major Carps (IMC)

(iv) Pond dyke.