

M.Sc. 2nd Semester Examination, 2013

**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 any *four* of the following questions: 2 × 4
 - (a) Write scientific names of two edible sea-weeds.
 - (b) What do you mean by shell fish ? Give two examples.

(Turn Over)

- (c) What is the chemical composition of pearl ?
- (d) What are the disadvantages of polyculture ?
- (e) What is spat ? What do you mean by grafting ?
- (f) What are the problems created by predatory insects during IMC culture ?
- (g) State the advantages of automatic feeder machine.
- (h) What is black-lip pearl oyster ?

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

- (a) Briefly describe the structure of pond dyke.
- (b) Explain the National planning for aquaculture development.
- (c) What are the constraints of shrimp culture development in Asia ?
- (d) Point out suggestive measures for mariculture development in India.

- (e) Briefly describe the embryonic development of *Macrobrachium rosenbergii*.
- (f) State the parasitic disease management of Indian major carps.
- (g) Briefly describe the breeding techniques of any one cat fish.
- (h) What are the precautions to be taken during pearl oyster surgery ?

3. Answer any *two* of the following : 8 × 2

(a) What are the different steps in the intensification of aquaculture system. Briefly illustrate the natural seed production of marine fin-fishes. 3 + 5

(b) What is penacid shrimp ? Describe the life-cycle of penacid shrimp. Add a note on their feeding management. 2 + 4 + 2

(c) Describe the design and construction of aquahatchery. Briefly explain the mechanism of pearl formation. Add a note on the pen culture. 3 + 3 + 2

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

- (i) Sluice gate
- (ii) Benefits of aquaculture from human perspective
- (iii) Past history of aquaculture
- (iv) Present status of sewage-fed fish culture in West Bengal.