M.Sc. 2nd Semester Examination, 2011

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*) Why aeration is required for intensive aquaculture pond ?

   (*b*) What are biofaulers ?

(*c*) Differentiate between extensive and intensive aquaculture.

(*d*) Write the scientific name of two cold water fishes of India.

(*e*) State the uses of pearl.

(*f*) Write the scientific name of two brown colour sea-weed.

(*g*) What do you mean by carp polyculture ?

(*h*) State the purposes of removing suspended solids in a Recirculating Aquaculture System (RAS).

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

(*a*) How would you eradicate unwanted fish from a culture pond ?

(*b*) What are the long-term planning for aquaculture development.

(*c*) Write in brief on sea-weed culture methods in India.

(*d*) What are the important parameters to be considered towards the selection of sites for aquafarming ?

(*e*) Describe the future scope of cold water fish culture.

(*f*) Give an account on the mariculture system development in India.

(*g*) Narrate the characteristic features of sewage water.

(*h*) Discuss the water quality management of brackish water prawn farming.

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

(*a*) Write down the scope of aquaculture in South West Bengal ? Briefly describe the biological characteristics of aquaculture species. 3 + 5

(*b*) Distinguish between penaeid and non-penaeid prawn. Give an account on the life cycle of a freshwater prawn. 3 + 5

(*c*) Define catfish culture. Describe the breeding process of *Heteropneuster fossilis*. Add a note on the economic importance of catfish. 1 + 5 + 2

(*d*) State the inland aquaculture potential in our country ? What are the draw back of traditional shrimp forming. Write down the methods to be employed for transportation of live fish in long distance. 3 + 2 + 3