2009
M.Sc.
4th Semester Examination
AQUACULTURE MANAGEMENT AND TECHNOLOGY
PAPER—AMT-4001
Full Marks : 40
Time : 2 Hours

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
Illustrate the answers wherever necessary.

(Fisheries Technology & Harbour Engineering)

1. Write in brief (any four) :

   (a) Give an example from Ethylenic thermoplastics and one from Non-ethylenic thermoplastics used in fish packaging.
   (b) What do you mean by fish protein concentrate (FPC) ?
   (c) Define trash fish. Give two examples.
   (d) What is Pearl Essence? Mention its uses.
   (e) Mention the names of two natural fibres and two synthetic fibres used in net preparation.
   (f) How would you determine the mesh size of a net?
   (g) What do you mean by Marine fouling?
   (h) What are the characteristic features of packaging materials used in dried fish packaging.

(Turn Over)
2. Write on four of the following:  
(a) Discuss briefly the factors affecting fishing gear design.  
(b) Advantages of Ferrocement used for Craft design.  
(c) Role of Echo-Sounder in fishing.  
(d) Enumerate the traditional fishing methods used in West Bengal.  
(e) Discuss the utility of responsible fishing.  
(f) Electric fishing methods.  
(g) Discuss in brief the packaging of frozen fish.  
(h) Explain Buttered and Breaded products as value added fish products.

3. Answer two of the following:  
(a) (i) What do you mean by active and passive fishing gears?  
(ii) Classify fishing trap.  
(iii) Mention advantages and disadvantages of trap fishing.  
(b) (i) What is line fishing?  
(ii) Enlist different line fishing methods.  
(iii) Add a note on the structures of gill nets.  
(c) (i) Enlist the different by-products prepared from fish.  
(ii) How would you prepare Isinglass in the Laboratory?  
(iii) Add a note on the use of Chitin and Chitosan.  
(d) (i) Define Modified Atmosphere packaging.  
(ii) Enlist the gases and gas mixtures used for MAP.  
(iii) Discuss the effect of MAP on pathogenic bacteria in fresh water.