

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) : 2×4
- (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 : 4×4
- (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 : 8×2
- (a) (i) What do you mean by active and passive fishing gears ?
 - (ii) Classify fishing trap.
 - (iii) Mention advantages and disadvantages of trap fishing. 3+3+2
 - (b) (i) What is line fishing ?
 - (ii) Enlist different line fishing methods.
 - (iii) Add a note on the structures of gill nets. 2+3+3
 - (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. 3+3+2
 - (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. 2+2½+3½