

**M.Sc. 4th Semester Examination, 2013**

**AQUACULTURE MANAGEMENT  
AND TECHNOLOGY**

PAPER—AMT - 401

*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 : 2 × 4
- (a) Define Yarn. Mention the properties of netting yarns.
- (b) What do you mean by modified atmosphere packaging?
- (c) Mention the different functions of coating.

( Turn Over )

( 2 )

- (d) Define pearl essence. Mention its uses.
  - (e) Mention the Scientific name and common names of four plants used for wooden boat design.
  - (f) Describe the important functions of packaging materials.
  - (g) Enlist the important component used in 'Sonar'. Mention their functions.
  - (h) Mention the characteristics of float. Enlist different types of float.
2. Answer any *four* of the following : 4 × 4
- (a) Discuss the fish glue preparation procedure.
  - (b) Discuss on the pollution and toxicological aspects of packaging materials.
  - (c) State the criteria of packaging materials for packaging of battered and breaded products.
  - (d) Define fishing traps. Classify the different types of traps.

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- (e) Enlist the different types of coating materials used for value added fish product preparation.
- (f) Describe the different factors affecting fishing gear design.
- (g) Enumerate the role of different gases for shelf life extension.
- (h) Discuss about Knotted and Knotless netting.

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

(a) (i) Enlist the different types of plastic packaging materials used for fish and fishery product.

(ii) Mention the criteria of packaging materials for dried fish packaging.

(iii) Add a note on packaging of fish pickle.

3 + 3 + 2

(b) (i) Discuss the basic principles of operation of ECO sounder.

(ii) Discuss different types of TEDs.

(iii) Add a note on Gear preservation through traditional methods.  $2\frac{1}{2} + 3 + 2\frac{1}{2}$

(c) (i) Define fish by-products and value added products.

(ii) How would you prepare fish Surimi ?

(iii) Enlist different Surimi based products used in India.  $3 + 3 + 2$

(d) (i) Discuss different types of line fishing methods.

(ii) Describe different types of hooks with diagram.

(iii) Add a note on bait types and quality.  $3\frac{1}{2} + 2\frac{1}{2} + 2$

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