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PG/IVS/AMT-401/14

M.Sc. 4th Semester Examination, 2014

**AQUACULTURE MANAGEMENT
AND TECHNOLOGY**

(Fishery Technology and Harbour Engineering)

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 'twine' and 'yarn'.

(b) Write the advantages and disadvantages of
using FRP as boat building material.

(Turn Over)

(2)

- (c) Define line fishing.
 - (d) Mention the differences between active and passive fishing gear.
 - (e) Enlist the different gases and gas-mixture used in MAP.
 - (f) Mention the characteristics and uses of sinker.
 - (g) What are the advantages of packaging of fish products ?
 - (h) What do you mean by Mince based fishery products ?
2. Answer any *four* of the following : 4 × 4
- (a) Discuss TED.
 - (b) Explain the packaging of dry fish.
 - (c) Discuss the mechanism of modified Atmospheric packaging.

(3)

- (d) State the toxicological aspects of plastic packaging materials.
- (e) Enumerate the preparation and uses of chitin and chitosan
- (f) Discuss light fishing methods.
- (g) Write the process of wood preservation adopted for increasing the longevity of a fishing craft.
- (h) Discuss responsible fishing with special emphasis on mesh size regulation.

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

- (a) (i) Classify different types of traps.
- (ii) Enlist different types of trawl-nets.
- (iii) Add a note on "sonar system" used for fish finding. 2 + 2 + 4
- (b) (i) State the fishery by-products and value added products.

(4)

(ii) Describe the wet reduction method for fish meal preparation.

(iii) Add a note on preparation and uses of fish liver oil. $2 + 3 + 3$

(c) (i) Enlist fishing craft design materials.

(ii) Add a note on marine fouling.

(iii) Write a note on maintenance of fishing gear. $2\frac{1}{2} + 2\frac{1}{2} + 3$

(d) (i) Write down the criteria of packaging materials used for fish packaging.

(ii) Enlist different plastic packaging materials used for packaging.

(iii) Add a note on fish curry packaging. $2\frac{1}{2} + 3 + 2\frac{1}{2}$