

M.Sc. 4th Semester Examination, 2010

**AQUACULTURE MANAGEMENT &
TECHNOLOGY**

(Fisheries Technology & Harbour Engineering)

PAPER—AMT-2401

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. Write in brief (any four) : 2×4
- (a) What do you mean by float ? Mention its role in fishing.
- (b) Mention the difference between active and passive fishing gear.
- (c) Enlist the different gases and gas-mixture used for MAP.

(d) What are the important steps and measures to be taken for preservation and marketing of value added products ?

(e) Define line fishing.

(f) Mention the name of two plants traditionally used in the process of harvesting fish.

(g) Enlist the advantage of packaging.

(h) Define 'twine' and 'yarn'.

2. Write on *four* of the following : 4 x 4

(a) Discuss the role of Turtle Exclusion Device (TED) in sea fishing.

(b) Explain the communication technology used in mechanized boat.

(c) Discuss about responsible fishing with special emphasis on mesh size regulation.

(d) Write a note on the maintenance and preservation of gear.

(e) Describe the light fishing methods.

(f) Explain the packaging of frozen fish.

(g) Describe the mechanism of Modified Atmospheric Packaging.

(h) Enumerate the different fishing crafts used in freshwater fish catch in the Southern West Bengal.

3. Answer *two* of the following :

8 × 2

(a) (i) State the difference between value added product and fish by-product.

(ii) Discuss the preparation procedure of fish liver oil (any *one*).

(iii) Add a note on preparation and utilization of Shark fin rays.

2 + 3 + 3

(b) (i) Enlist the fishing craft design materials.

(ii) Define marine fouling. Enlist the fouling organism commonly observed in marine environment.

(iii) Add a note on maintenance of crafts.

$$2\frac{1}{2} + 3 + 2\frac{1}{2}$$

(c) (i) Enlist the different plastic packaging materials commonly used for fish packaging.

(ii) State the important design parameters of cartoons for packaging fishery products.

(iii) Add a note on toxicological aspects of effect of packaging materials on fish products.

$$3 + 3 + 2$$

(d) (i) What do you mean by Trawl net ?

(ii) Classify different types of Trawl net.

(iii) Describe the mechanism and application of
'Sonar System'.

$$1\frac{1}{2} + 2\frac{1}{2} + 4$$

