

2015

M.Sc.

4th Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-401

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.

(Fishing Technology, Harbour Engineering)

1. Answer briefly any four of the following : 2×4

- (a) Write a note on Shark fin ray.
- (b) Mention the criteria of polypropylene as packing materials.

(Turn Over)

- (c) Differentiate between fish byproduct and value added product.
- (d) Mention the traditional method of fishery gear preservation.
- (e) Enlist different types of floats used in marine fishing. Mention the characteristics of floats.
- (f) Write a note on fish Eye.
- (g) Define co-polymers.
- (h) Write down the principle of Vacuum packaging.

2. Answer any *four* of the following : 4×4

- (a) Write the process of Isinglass preparation in the laboratory. Mention its use.
- (b) Chemical preservation of wood as boat building material.
- (c) Write down the concept about Turtle Excluder Device.
- (d) Enumerate the future of modified atmosphere packaging for fish.

- (e) Discuss different types of fish traps used in West Bengal.
- (f) Write a note on electric fishing.
- (g) Preparation and packaging of fish surimi.
- (h) Discuss the mechanism of echo-sounder in fishing.

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

- (a) (i) Enlist the different factors which are considered for fishing gear design.
- (ii) What is line fishing? Write a note on line fishing methods.
- (iii) Add a note on net-recoder. $2\frac{1}{2}+3\frac{1}{2}+2$
- (b) (i) Enlist the different boat building materials used in India.
- (ii) Mention the properties and advantages of ferro cement as boat building material.
- (iii) Add a note on marine fouling. 2+4+2

- (c) (i) Mention the characteristics of LDPE and HDPE.
(ii) Write down the function of coating materials.
(iii) Discuss different types of breeding. 3+2+3
- (d) (i) Enlist different types of fish by-products.
(ii) Discuss any one method of fish oil preparation.
(iii) Add a note on Fish Protein Concentrate (FPC).

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