

2016

AQUACULTURE MANAGEMENT

[Honours]

PAPER – IV

Full Marks : 90

Time : 4 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

[OLD SYLLABUS]

1. Answer any *ten* of the following : 2 × 10
- (a) What are importance of pH in pond water ?
- (b) Write the scientific name of any two plankton of marine water Body.

(Turn Over)

- (c) State the significance of macro vegetation.
- (d) Write the advantages of natural drying.
- (e) What do you mean by bioaccumulation ?
- (f) Define plankton and necton.
- (g) Write the functions of Ecosounder.
- (h) State the role of decomposer of an aquatic ecosystem.
- (i) What are the importance of live food in fish culture pond.
- (j) Define isinglass.
- (k) Write the scientific name of any two sea weeds.
- (l) Write the merit and demerits of plastic packaging.
- (m) What is icing.
- (n) Write about quality management.

- (o) Define craft with example.
- (p) What do you mean by curing of fish ?

GROUP – A

2. Answer any *two* of the following : 10 × 2

(a) (i) State the importance of organic manures in the fish farm.

(ii) Write the relation between produces and consumer.

(iii) Add a note on thermal stratification of Lake. 2 + 4 + 4

(b) (i) What is acidic soil ?

(ii) How would you correct the alkalinity of water.

(iii) Explain the relationship of fish growth with water quality and food availability. 2 + 3 + 5

(c) (i) Write the steps of sewage water treatment.

(ii) Describe the effect of pesticides and inorganic manures in fish pond. $5 + 5$

(d) Write short notes on : $2\frac{1}{2} \times 4$

(i) Soil organic matter

(ii) Shadow zone

(iii) S.D.N.A.R channel

(iv) Primary stain.

3. Answer any *one* question from the following : 15×1

(a) (i) Briefly explain the zonation of ocean.

(ii) Describe physical and chemical properties of an ideal inland pond water.

(iii) Explain the importance of productivity.

(iv) Discuss with diagram of a aquatic food web. $3 + 4 + 2 + 6$

(b) Write short notes on : 5×3

(i) Ecology of reservoir

(ii) Entrophication

(iii) Radio active pollution.

GROUP - B

4. Answer any *two* questions from the following :

(a) (i) What do you mean by fishing harbours ? 10×2

(ii) Explain about the fishing accessories.

(iii) State the process of fishing operation in abyssal zone. $2 + 3 + 5$

(b) (i) Define smoke fish.

(ii) State the impact of pathogenic micro-organisms on processed food.

(iii) Explain the production procedure of fish meal. $2 + 3 + 5$

(c) (i) What is quality assurance ?

(ii) Write the difference between fish biproducts and value added product with examples.

(iii) Describe about fish freezing process.

(d) Write short notes on : $2 + 4 + 4$
 $2\frac{1}{2} \times 4$

(i) Responsibility of HACCP team.

(ii) Antibiotics used in processing plant

(iii) Tickler chain

(iv) Twines and rope.

5. Answer any *one* from the following : 15×1

(a) (i) Define hanging co-efficient of Net.

(ii) State the advantages of thimbles and shackly.

(iii) Write the importance of non-mechanized vessels.

(iv) Describe different types of gear operates in West Bengal $2 + 4 + 3 + 6$

(b) (i) What is characteristics of rigor fish.

(ii) Write the microbial causes of fish spoilage.

(iii) What do you mean by fish landing centre ?

(iv) Briefly describe the preservation of gears. 3 + 2 + 3 + 7
