

2012

M.Sc.

3rd Semester Examination

AQUACULTURE MANAGEMENT & TECHNOLOGY

PAPER—AMT-303

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.

(Finfish and Shellfish Pathology)

1. Write on any four of the following : 2×4

(a) Mention the symptoms and control of Lerneosis disease of IMC.

(b) What is 'Red disease' of *P. monodon*?

(c) State the MBV in penacid shrimp.

(Turn Over)

- (d) Mention the causative agent and symptoms of "whirling disease" of fish.
- (e) What do you mean by non-infections disease of fish ? Give two examples.
- (f) Differentiate between Acute and Chronic diseases.
- (g) Mention the causative agent of EUS and susceptible aquatic species.
- (h) What is columnaris disease of fish ?

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

- (a) What are stressors ? Classify the stressors.
- (b) Write a short note on 'loose shell' disease in *penaeus monodon*.
- (c) Discuss the different treatment methods of fish diseases.
- (d) What are main diagnostic approaches for fish disease control.
- (e) State the role of medicated feed in Aquaculture.
- (f) Add a note on prophylactic measures taken for coastal shrimp farming.

(g) Write note on white spot disease of shrimp.

(h) How do you determine that the fish is sick?

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

(a) (i) Enlist internal and external parasitic diseases of Indian Major Carps with suitable examples.

(ii) Mention one internal and one external parasitic disease of carp in relation to symptoms, prophylaxis and treatment.

2+3+3

(b) (i) Name the bacterial diseases and fungal diseases observed in shrimp culture pond in West Bengal.

(ii) Discuss any one of fungal disease of *P. monodon* with respect to causative agent, symptoms and treatment.

4+4

(c) (i) Mention the causative agent, symptoms and treatment of Branchiomycosis and Alfatoxicosis.

(ii) Add a note on 'Black Spot' disease of shrimp.

3×2+2

- (d) (i) Define EUS in fish.
- (ii) Enlist pathogenic signs observed in carp infected with EUS.
- (iii) Add a note on control measures of EUS.
- (iv) What are the possible fate of a pathogen within its host.

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