2011

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) Write down the prophylactic and Therapeutic measures of Vibriosis in shrimp.
 - (b) Mention the causes of Gas bubble disease of IMC.
 - (c) What is Stressors? Classify the stressors for fish.

- (d) Write a short note on 'piscine tuberculosis'.
- (e) Mention the causative agent of Lerneosis with treatment measure.
- (f) Define nutritional disease of fish with example.
- (g) What is MBV and HPV?
- (h) Write down the causative agent and symptoms of 'Ich' disease of fish.
- 2. Answer any four of the following:
 - (a) Briefly outline the main approaches in fish disease diagnosis.
 - (b) Treatment of bacterial disease with medicated feed.
 - (c) "Preventive measures of any disease is better than cure / treatment" Justify.
 - (d) Enumerate the non-infectious disease of freshwater fish.
 - (e) Write down the strategy for preventing fish disease.
 - (f) Discuss about different methods of disease treatment in aquaculture.

4×4

- (g) Briefly discuss about the introduction of exotic fish and disease susceptibility.
- (h) Write down briefly about white spot disease of Penacus monodon.
- 3. Answer any two of the following:

8x2

- (a) (i) What are the behavioural and physical changes of diseased fish?
 - (ii) Enlist the helminth disease of IMC with causative organism.
 - Discuss about the life cycle of black spot disease (iii) $3+2\frac{1}{2}+2\frac{1}{2}$ causing helminth.
- (b) (i) Enlist the Common protozoan disease of fish with causative agent.
 - (ii) Write a note on gill fouling in shrimp.
 - (iii) Add a note on Control of protozoan disease.

3+2+3

- (c) (i) Write about pathogenic sign and treatment of saprolegniafis and Branchiomyces in fish.
 - (ii) Add a note on Aflatoxicosis and Aflatoxins.

4 + 4

- (d) (i) Enlist the common bacterial disease of fish with causative agent.
 - (ii) Briefly discuss about pathogenic sign, prophylactic and therapeutic measures of EUS. $3\frac{1}{2}+4\frac{1}{2}$