

2019

Major 3rd Semester Examination

INDUSTRIAL FISH AND FISHERIES

Paper - C 7-T

(Fish Pathology)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Answer all questions.

1. Answer *any five* questions from the below : $5 \times 2 = 10$
 - (a) Write a short note on whirling disease. 2
 - (b) Mention the causative agent of saprolegniasis. 2
 - (c) State about disease triangle concept. 2
 - (d) Write the symptoms of black gill disease and lernaea infection. 2

[Turn Over]

(e) What do you mean by facultative and heterotrophic bacteria ? 2

(f) 'Write a short note of fungal disease of Penaeus monodon 2

(g) State about infectious and non-infectious disease. 2

(h) Mention the treatment method of trematode infection. 2

2. Answer *any four* questions : 4×5=20

(a) Enlist different parasitic disease of carps with their causative agent. 5

(b) Briefly describe the symptoms, prophylactic measures and control measures of white spot disease of Penaeus monodon. 5

(c) Describe the life cycle of Argulus species and their control measures in aquaculture system. 5

(d) Briefly discuss different bacterial diseases of shrimp and their treatment methods. 5

(e) Give an account of the causative agent, symptom and prophylactic measures of EUS. 5

- (f) What is parasitism ? Write a note on the kind of parasites found in fishes. 5

3. Answer *any one* question : 10×1=10

(a) Write short note on : 4×2½

(i) Fish vaccine

(ii) Probiotics

(iii) Ich disease

(iv) Branchiomycosis

(b) (i) discuss in detail the disease diagnostic approaches when fish is sick.

(ii) Briefly describe on signs of nutritional pathology of farmed fish.

(iii) Write a short note on gas bubble disease.

4+4+2
