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B.F.Sc./5th Sem /25

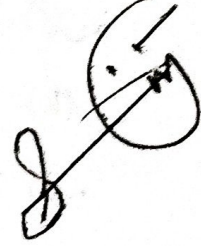
2025

5th Semester Examination

4-Years B.F.Sc.

Paper : BFSC-501

(Microbial and Parasitic Diseases
of Fish and Shellfish)



Full Marks : 50

Time : Two Hours

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

Group - A

1. Answer any *ten* questions :

2×10=20

- (a) What are the major groups of pathogens causing diseases in finfish and shellfish?
- ✓(b) What are the general symptoms of diseased fish?
- (c) What are opportunistic pathogens in aquaculture?
- (d) What are intermediate hosts in parasitic life cycles?
Give example.
- ✓(e) Explain the importance of early disease detection.
- (f) What are antibody-based diagnostic methods?

P.T.O.

- (g) Define probiotics in aquaculture and mention its role.
- (h) What environmental conditions favour fungal diseases?
- (i) Why are viral diseases difficult to treat?
- (j) Why is quarantine necessary for fish seed?
- (k) What are SPF and SPR stocks?
- (l) What is periphyton? Give one example.
- (m) Mention the causative agents of tail rot and fin rot disease in fish and mention one preventive measure against this disease.
- (n) What are the common crustacean parasites of fish?
- (o) What are zoonotic diseases? Give one example related to fish.



Group - B

2. Answer any six questions : 5×6=30

- a) Define host, pathogen and environment in the disease triangle.
- (b) Explain the role of stress in disease development in fish.
- (c) Explain the life cycle of a monogenean parasites.
- (d) Mention causative agent, symptoms and preventive measure of any one infectious disease prevalent in shrimp farms of West Bengal. 1+2+2

- (e) What are the steps involved in health certification for aquatic animals? Explain why it is important. 3+2
- (f) Why are OIE-listed diseases important in aquaculture?
- (g) Describe disease surveillance technique in aquaculture.
- (h) Explain the role of vaccines and immunostimulants in fish health management.
- (i) Write down the role of biofilm in aquatic health management.
- (j) Briefly describe the human health risks of antibiotic misuse in aquaculture system.

