B.F.Sc./5th Sem/BFSC-501/23 Total Pages-04

2023

BFSC 5th Semester Examination

(Microbial and Parasitic Diseases of Fish and Shellfish) Indragit

PAPER — BFSC-501

Full Marks: 50

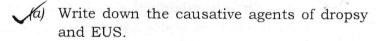
Time: 2 hours

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.

1. Answer any ten from the following questions : $2 \times 10 = 20$



- (b) Write on the two control measures taken during cotton wool diseases in fish.
- Explain the importance of disease surveillance in aquaculture.

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(Turn Over)

- B What is the importance of quarantine in aquaculture?
- (e) Briefly outline two key health management strategies employed in aquaculture to promote disease prevention.
- (1) Write immunostimulants in aquaculture down the function of
- 9 of polluted water bodies. bioremediation techniques in the treatment State two advantages of using
- B management of fish. Write the role of probiotics in health
- (i)Practices (GMP) and Best Management Practices (BMP) in aquaculture Differentiate between Good Management
- Define SPF and SPR in aquaculture
- B Enumerate two biosecurity measures that transmission in aquaculture. focus on minimizing the risk of disease
- F Define WSSV in shrimp and mention one preventive measure against this disease
- B What is Sanitary and Phytosanitary (SPS Agreement?

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- (n) Name two environmental management practices that contribute to disease control in aquaculture.
- that can affect both aquatic animals in aquaculture and humans Provide two examples of zoonotic diseases
- MIDMAPO ESTD 2017 TAY. 303 N Answer any six from the following questions:

5×6=30

(a) Write a note on fish immunostimulants.

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- 6 Name one infectious disease in shrimp with causative agents, symptoms and control measures 1+1+1+2=5
- State the damages caused by Argulus in carps and mention some phytoremedial measures.
- (d)State the life cycle of Lernaea sp. with suitable diagram remedial measures against the parasites. and mention some
- B Write a short note on IHHNV
- E How does the presence of biofilm contribute and what role does it play in supporting to the overall health of aquatic ecosystems various organisms?

- (g) In the context of aquaculture, what are the key benefits of biofloc systems in terms of water quality management and the overall health of cultured aquatic species? 5
- (h) What role does periphyton play in maintaining ecological balance in freshwater environments and how does it contribute to the health of aquatic organisms?
 2+3=5
- Define probiotics. What are the potential benefits of using probiotics in aquaculture? 2+3=5
- Write the ideal characteristics of vaccines used in world aquaculture practice. 5



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