2023

BFSC 4th Semester Examination

Fish and Shellfish Pathology

PAPER — BFSC-402

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: $2 \times 10 = 20$
 - (a) What is pathogenicity?

Why is the study of fish pathology important for aquaculture?

(c) How does 'disease triangle' relate to host, pathogen and environment interactions?

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(Turn Over)



(d) Write the ideal fresh water parameters for healthy fish management

D What are stressors? Give examples

How does a fish exhibit an inflammatory response to tissue injury?

(9) Write the symptoms of stress due to low dissolved oxygen (DO2) in Carp fishes

What is extracellular matrix remodelling?

(i) Write the role of lime in disease management.

What are the common symptoms of Epizootic

symptoms responsible for fin-rot disease. pswdown which have agents and symptoms responsible for fin-rot disease.

m How does cold stress affect the fish health?

Write a short note on vitamin-A deficiency syndrome

0 Write the diseases of fish due to nutritional deficiencies

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N Answer any six from the following questions : 6×5=30

(a) What do you mean by inoculum? What are Define defence mechanism of fish against infectious diseases.

different types of inoculum? 2+3=5

(c) What are the clinical signs and treatment of Saprolegnia infection in fish?

(d) What is metaplasia? Write down the Write the symptoms and control measures mechanism of metaplasia with example. of WSSV disease of shrimps.

Describe cellular responses of fishes due to injuries.

2+3=5

endotoxins and exotoxins Write down the difference between

Give an account of ectoparasitic disease of How do we know that a given pathogen causes a specific disease?

Write notes on viral diseases of shellfish.

B.F.Sc./4th Sem/BFSC-402/23

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