



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - VI

Subject : AQUACULTURE MANAGEMENT

Paper : C 13-T

Fish disease, Immunity and Health Management

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

1. Answer any *four* questions : 5×4=20
- What do you mean by epitope and paratope? Mention their features.
 - Distinguish between humoral and cell mediated immunity.
 - Describe important disease problems of cultured shellfishes and their control.
 - What is biofloc? Describe the significance of biofloc fish culture.
 - Describe briefly the inflammatory response to diseases.
 - Define commensalism, mutualism and parasitism with suitable example.

2. Answer any *two* questions :

10×2=20

- (a) Illustrate the disease triangle concept. Write the name of the causative agent, symptoms and preventive measures of Ichthyophthiriasis. 2+4+4
- (b) Briefly describe the typical structure of antibody. Point out the differences between innate and acquired immunity. 6+4
- (c) What are the health management strategies adopted in aquaculture? Mention the importance of biofilm and periphyton in aquatic health management. 5+5
- (d) What is vaccine? Describe different types of vaccines used in aquaculture. 2+8

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