

CBCS SCHEME

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18BT823

Eighth Semester B.E. Degree Examination, June/July 2023 Marine Biotechnology

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. Draw neat diagram wherever necessary.

Module-1

- 1 a. Explain the importance of edible oysters and discuss its farming methods. (10 Marks)
b. Elaborate the economic significance of crabs. (10 Marks)

OR

- 2 a. Discuss the economic importance of fishes. (10 Marks)
b. Describe the importance of pearl oysters. (10 Marks)

Module-2

- 3 a. Highlight the sources of tetrodotoxins. (10 Marks)
b. Discuss the therapeutic applications of conotoxins. (10 Marks)

OR

- 4 a. Describe marine biotoxins and outline the classification. (10 Marks)
b. Explain the cause and symptoms of ciguatera toxins. (10 Marks)

Module-3

- 5 a. Discuss the significance and benefits of marine collagen. (10 Marks)
b. Explain the sources and applications of marine chitosan. (10 Marks)

OR

- 6 a. Highlight the various uses of gelatin. (10 Marks)
b. Discuss the different health benefits of carotenoids with examples. (10 Marks)

Module-4

- 7 a. Elaborate the various techniques of clean up of oil spills at oceans. (10 Marks)
b. Discuss the processes of biodegradation of pesticides with algae. (10 Marks)

OR

- 8 a. Explain the role of algae in removal of heavy metals in coastal waters with examples. (10 Marks)
b. Describe the waste management strategies to protect ocean. (10 Marks)

Module-5

- 9 a. Elaborate the diseases associated with cultured shrimps. (10 Marks)
b. Discuss the physico-chemical characteristics for water quality management in hatcheries. (10 Marks)

OR

- 10 a. Describe the common diseases in fishes. (10 Marks)
b. Explain the diagnostic kits for disease management in aquaculture. (10 Marks)

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