


Final Assessment Test – November 2025

Course: TBIT310L - Aquatic Biotechnology

Class NBR(s): 6845

Time: Three Hours

Slot: E1+TE1

Max. Marks: 100

- KEEPING MOBILE PHONE/ANY ELECTRONIC GADGETS, EVEN IN 'OFF' POSITION IS TREATED AS EXAM MALPRACTICE
- DON'T WRITE ANYTHING ON THE QUESTION PAPER

COs	CO Statements
CO1	Discuss importance of aquatic life, their ecosystems and classifications.
CO2	Elaborate on aquaculture and fisheries biotechnology
CO3	Impart technical skills necessary for both aquaculture and fisheries industries
CO4	Appraise role of fish nutritionist in the management of aquatic health
CO5	Prioritize various ways to diagnose and prevent diseases.
CO6	Build business opportunities in freshwater and marine bioprospecting.

BL – Blooms Taxonomy Level (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)

PART – A (8 X 5 = 40 Marks)

Answer ALL Questions

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| 1. | The first integrated agriculture-aquaculture systems emerged in China. What is the statement related to? Explain about fresh water and marine aquaculture. | CO1 | BL1 |
| 2. | Explain fish culture with reference to sewage fed. | CO2 | BL3 |
| 3. | Feeding plays an important role in increasing the productivity of aquaculture farms. What is the statement related to? Explain. | CO3 | BL4 |
| 4. | Explain the bacterial diseases of fishes with implications. | CO4 | BL6 |
| 5. | Write a short note on the role of drugs from marine sources and their applications. | CO6 | BL5 |
| 6. | Sex of a fish changes from male to female or vice versa during its lifetime. What is the statement related to? Explain briefly. | CO5 | BL5 |
| 7. | Explain the unique biochemical diversity of sponges, corals, marine bacteria and fungi. | CO6 | BL6 |
| 8. | Explain briefly about the techniques for processing, packaging and storage of marine products. | CO4 | BL5 |

PART – B (6 X 10 = 60 Marks)

Answer ALL Questions

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| 9. | Give a detailed account of microalgae and macrolgae. | CO1 | BL2 |
| 10. | Fish species spends most of their time in fresh water, rivers, lakes, ponds and inland wetlands. What is the statement related to? Explain in detail with examples. | CO3 | BL4 |

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| 11. | Development of genetically engineered fish can increase the yield of fish farms and reduce pressures on ocean fisheries. Explain in detail with examples. | CO5 | BL5 |
| 12. | WSSV, EMS, IHHNV, TSV and vibriosis are some of the infections that can affect some aquatic organism. Name the aquatic organism affected. Explain in detail. | CO5 | BL5 |
| 13.a) | Explain in detail about bioremediation. | CO6 | BL5 |
| OR | | | |
| 13.b) | Explain in detail about biofuels. | CO6 | BL5 |
| 14.a) | Explain in detail about the aquatic bioproducts. | CO6 | BL6 |
| OR | | | |
| 14.b) | What is the role of biotechnology in aquaculture/ Explain with examples? | CO6 | BL6 |

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