

### SB-3722

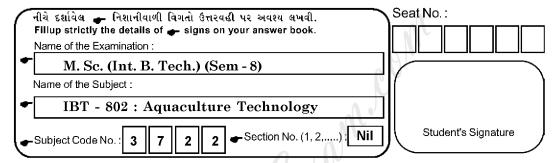
# M. Sc. (Int. B. Tech.) (Sem - VIII) Examination March/April - 2011

IBT - 802 : Aquaculture Technology

Time: 3 Hours] [Total Marks: 70

#### **Instructions:**

**(1)** 



- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labelled diagrams whenever necessary.
- (4) Both sections must be written in separate answer books.

#### 1 Attempt any three:

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- (i) Describe the involvement of aquaculture biotechnology in hormone therapy and vaccine development.
- (ii) Give an account on microorganisms responsible for fish spoilage, state the methods for diagnosis, prevention and control.
- (iii) Give detailed information about the application and the scope of aquaculture biotechnology.
- (iv) Elaborate on possible risks and benefits of marine biotechnology.

## 2 Answer any two:

18

- (i) Elaborate on selection, crossbreeding and chromosome manipulation techniques to improve pearl Oysters.
- (ii) Androgenesis and gynogenesis
- (iii) State the major poits that makes fish a suitable model for food.

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3 Describe any two:

- 18
- (i) Molecular methods for diagnosis of viral disease in shrimp.
- (ii) Major fouling organisms in aquatic environment.
- (iii) Diseases of hatcheries
- 4 Write short notes on any four:

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- (i) Culture of Gracilaria
- (ii) Bioactive materials from algae
- (iii) Marine toxins
- (iv) Algal source for single cell proteins
- (v) Marine microbial biofertilizer.

