



**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)

नीचे दृशायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (Int. B. Tech.) (Sem - 8)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="IBT - 802 : Aquaculture Technology"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="2"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	

- (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 : 18**

- (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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[Contd...

- 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** : **16**
- (i) Culture of Gracilaria
  - (ii) Bioactive materials from algae
  - (iii) Marine toxins
  - (iv) Algal source for single cell proteins
  - (v) Marine microbial biofertilizer.
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