



R-3925-26

M. Sc. (Int. Biotechnology) (Sem. VIII) Examination

May / June – 2010

IBT-802 : Aquaculture Technology

Time : 3 Hours]

[Total Marks : 70

R-3925

Instructions :

(1)

नीचे दशांशविक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> M. SC. (INT. BIOTECHNOLOGY) (SEM. 8)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> IBT-802 : AQUACULTURE TECHNOLOGY	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="9"/> <input type="text" value="2"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="1"/>
Student's Signature	

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

- 1 Attempt the following : 5
(i) What is conchiolin?
(ii) What is ecdysone?
(iii) Give an example of pond bottom degrader.
(iv) What is Thermal cycler?
(v) What is pearl mother?

- 2 (a) Explain how aquaculture biotechnology has a role in hormone therapy. 5
(b) Discuss about the use of biotechnology in feed development. 5

OR

- 2 (a) Describe the concept of sustainable aquaculture using biotechniques. 5
(b) Compare and contrast possible risks and benefits of marine biotechnology. 5

- 3 Explain in detail application of genetic manipulation techniques in aquaculture practices. 10

OR

- 3 (a) Describe Androgenesis. 5
(b) Describe Gynogenesis. 5

- 4 Short notes : (any two) 10
 (a) Induced Breeding
 (b) Fish spoilage
 (c) Induced polyploidy.

R-3926

Instructions :

(1)

नीचे दशांशों में निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book. Name of the Examination : <input style="width: 100%;" type="text" value="M. SC. (INT. BIOTECHNOLOGY) (SEM. 8)"/> Name of the Subject : <input style="width: 100%;" type="text" value="IBT-802 : AQUACULTURE TECHNOLOGY"/> Subject Code No. : <input style="width: 20px;" type="text" value="3"/> <input style="width: 20px;" type="text" value="9"/> <input style="width: 20px;" type="text" value="2"/> <input style="width: 20px;" type="text" value="6"/> Section No. (1, 2,.....) : <input style="width: 20px;" type="text" value="2"/>	Seat No. : <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <input style="width: 20px;" type="text"/> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center;"> Student's Signature </div>
--	--

- (2) Figures to the right indicate full marks of the question.
 (3) Draw neat and labelled diagrams wherever necessary.
 (4) Both sections must be written in **separate** answer books.
- 5 Attempt the following : 5
 (i) What is meant by lotic zone?
 (ii) What is meant by lentic zone?
 (iii) What are noroviruses?
 (iv) Name the causal organism for white spot syndrome.
 (v) Write scientific name of pearl oyster.
- 6 Suggest some preventive and control measures for diseases in hatcheries, also discuss about the causal organisms. 10
OR
- 6 Write an account on any one technique for detecting viral diseases of shrimps. 10
- 7 (a) Discuss about culture of Gracilaria. 5
 (b) Give detailed account on Spirulina culture. 5
OR
- 7 Give a detailed account on some bioactive compounds from marine organisms. 10
- 8 Write short notes on : (any two) 10
 (a) Fouling organisms
 (b) Ciguatera
 (c) Recombinant hormone.