



RN-3833

**M. Sc. (Integrated Biotechnology) (Sem. VI)
Examination**

May / June – 2010

**IBT 604 : Environmental Biotechnology
(Old Course)**

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशविव निशानीवाणी विगतो उत्तरवडी पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
M. Sc. (Integrated Biotechnology) (Sem. 6)	<input type="text"/>
Name of the Subject :	<input type="text"/>
IBT 604 : Environmental Biotechnology (Old Course)	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 8 <input type="text"/> 3 <input type="text"/> 7	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> 1&2	
Student's Signature	

- (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.

SECTION-I

- 1 Answer the following : 5
- (1) Give the significance of coagulation during primary water treatment.
 - (2) What is captive breeding ?
 - (3) Define : Xenobiotics
 - (4) What is zooglyphic film ?
 - (5) What is bioremediation ?

- 2 What is composting ? Elaborate a note on composting. 10

OR

- 2 Enlist the treatments use of sewage water. Explain in detail conventional methods for sewage treatment. 10

- 3 Describe briefly about the different techniques used in phytoremediation. 10

OR

- 3 Describe in detail techniques of Bioremediation. 10

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[Contd...

- 4 Write short notes : (any two) 10
(a) Role of enzymes in waste water treatment
(b) Trickling filter : construction and biochemistry
(c) Degradation of Aromatic hydrocarbons.

SECTION-II

- 1 Define the terms : 5
(1) Biopesticide
(2) Biodiversity
(3) Micropropagation
(4) Biosensor
(5) Biofertilizer.

- 2 Discuss the role of biotechnology in preservation of biodiversity with suitable example. 10

OR

- 2 Enlist the threatened species and discuss in detail the major factors affecting to loss of biodiversity. 10

- 3 Explain in detail various methods involved in metals recovery from low grade ore. 10

OR

- 3 Elaborate a note on "Methods for conservation of Biodiversity". 10

- 4 Write short notes on : (any two)
(a) Cellular and metabolic aspects of biotechnology
(b) Micropropagation : a remedy for reforestation
(c) Biodegradation process.
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