



R-3809

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

May / June - 2010

IBT 405 : Environmental Biology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशविवेक 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. (Int. Biotechnology) (Sem. 4)	<input type="text"/>
Name of the Subject :	<input type="text"/>
IBT 405 : Environmental Biology	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 8 <input type="text"/> 0 <input type="text"/> 9	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 What are the main causes for the increase of CO₂ in the atmosphere? What are the consequences of this increase? 10

OR

1 What is an estuary? Classify different types of estuaries and explain the ecological importance of estuaries. 10

2 What is ecological succession? Describe the process of succession in a pond with neat labelled diagram. 10

OR

2 Describe the ecosystem in terms of various structural components present in it and the functional aspects. 10

3 Write short notes on : (any three) 15

- (a) Nitrogen cycle
- (b) Biology of thermal springs
- (c) Energy flow model in ecosystem
- (d) Zonation in ocean
- (e) Types of forest ecosystems.

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[Contd...

SECTION-II

- 4 Define pollution. Explain the main sources of air pollution and suggest the measures to be taken to reduce air pollution. 10

OR

- 4 What is in situ and ex situ conservation? What is the role of National Parks, Wild life sanctuaries and Botanical gardens in biodiversity conservation? Enlist some important National parks, Wild life sanctuaries and botanical gardens of Gujarat. 10

- 5 What is acid rain? Explain the main causes and the environmental problems caused by acid rain. 10

OR

- 5 Explain various kinds of water pollution. Discuss the ecological effect of water pollution on aquatic life and human health. 10

- 6 Write short notes on : (any three) 15
- (a) Radioactive pollution
 - (b) Noise pollution
 - (c) Endemic species
 - (d) Sustainable development
 - (e) Genetic, species and ecosystem diversity.
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