



R-4093-94

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

May / June – 2010

IBT-901 : Biodiversity & Bioresources

Time : 3 Hours]

[Total Marks : 70

R-4093

Instructions :

(1)

नीचे दशांशविक \leftarrow निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of \leftarrow signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
\leftarrow M. SC. (INT. BIOTECHNOLOGY) (SEM. 9)	<input type="text"/>
Name of the Subject :	<input type="text"/>
\leftarrow IBT-901 : BIODIVERSITY & BIORESOURCES	<input type="text"/>
\leftarrow Subject Code No. : <input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="3"/> \leftarrow Section No. (1, 2,.....) : <input type="text" value="1"/>	<input type="text"/>
	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 Give a detailed account on genetic diversity in animals. 10

OR

1 Discuss in detail diversity of metabolites among marine invertebrate fauna. 10

2 Discuss the significance of study of rare and endangered species of plants. 10

OR

2 What is Agro-diversity? Discuss the centres of origin of cultivated plants with their importance. 10

3 Write short notes on any **three** of the foillowing : 15

- (a) Project Crocodile
(b) Components of biodiversity
(c) Rare and endangered species of plants
(d) Meta-population concept
(e) Dolphin

R-4094

Instructions :

(1)

नीचे दशांशवेक 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="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text"/> M. SC. (INT. BIOTECHNOLOGY) (SEM. 9)	<input type="text"/> Student's Signature
Name of the Subject :	
<input type="text"/> IBT-901 : BIODIVERSITY & BIORESOURCES	
Subject Code No. : <input type="text"/> 4 <input type="text"/> 0 <input type="text"/> 9 <input type="text"/> 4 Section No. (1, 2,.....) : <input type="text"/> 2	

- (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.

4 Define "Biomarkers". How lipid biomarkers are useful to assess microbial diversity? 10

OR

4 Discuss the advantages and limitation of protein profile and lipid marker techniques for assessment of microbial diversity. 10

5 Discuss the diversity in rRNA-sequences. 10

OR

5 Enlist various methods for monitoring prokaryotic biodiversity and explain in detail any one molecular method. 10

6 Write short notes : (any **three**) 15

- (a) Phylogenetic diversity in microbes
(b) Role of microorganisms in methanogenesis
(c) Potentialities of microorganism to revolutionize biotech industries
(d) Polymorphism.