



**SD-3731**

**M. Sc. (Biotechnology) (Sem. IX) (ATKT)**

**Examination**

**April / May – 2011**

**IBT - 901 : Biodiversity & Bioresources**

Time : Hours]

[Total Marks :

**Instruction** निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
M. Sc. (BIOTECHNOLOGY) (SEM. 9) (ATKT)

Name of the Subject :  
IBT - 901 : BIODIVERSITY & BIORESOURCES

Subject Code No. : 3 7 3 1 Section No. (1, 2,.....) : Nil

Seat No. :

Student's Signature

1 Attempt any two of the following : 18

- Discuss the biodiversity of Bryophytes and Lichens group of plants.
- What is Agro-biodiversity ? Discuss the centres of origin of cultivated plants with their importance.
- Discuss in detail diversity of metabolites among marine invertebrate fauna.

2 Attempt any two : 18

- Application of microbial diversity with respect biotechnology industries.
- Genetic diversity in micro-organisms.
- Diversity of photosynthetic prokaryote with respect to their reaction centre, light harvesting system and  $\text{CO}_2$  fixation.

- 3** Discuss any **two** : **18**
- (a) PCR and Non PCR based method of Monitoring diversity.
  - (b) Global environmental issues with respect to microbial diversity.
  - (c) Diversity in r-RNA Sequences.
- 4** Write a short note on the following : (any **four**) **16**
- (a) Red Data Book.
  - (b) Rare and endangered animals.
  - (c) Wild varieties of cultivated crop plants.
  - (d) Case study on Olive Reedley Turtles.
  - (e) Meta population concept.
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