

AU-227

**M.Sc. (Part—I) Semester—I (C.B.C.S. Scheme) Examination**  
**BOTANY**  
**(Resource Utilization and Conservation)**  
**Paper—II**

Time : Three Hours]

[Maximum Marks : 80

**Note :—**(1) All questions are compulsory and carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. Explain the concept of Biodiversity. Add a note on Value and Loss of Biodiversity. 16

**OR**

What is Bioprospecting ? Write on its merits and demerits. 16

2. Write on :

- (a) Uses of fibre crops 5
- (b) Plant Introduction and Secondary Centres 5
- (c) Indo-Burmese Centre. 6

**OR**

- (d) Forage crops 5
  - (e) Aromatic plants 5
  - (f) World centres of primary diversity of domestic plants. 6
3. (g) What are the benefits of green revolution ? Add a note on its adverse effects. 16

**OR**

- (h) What is avenue plantation ? Suggest the methodology, character, plants for shade and pollution control. 16

4. Write on :
- (i) National Parks 5
  - (j) Sunderbans Biosphere Reserve 5
  - (k) Wildlife Management. 6

OR

- (l) Decline of bioresources 5
- (m) Melghat Tiger Reserve 5
- (n) Biodiversity Hot Spots. 6

5. Write on :
- (o) Gene Banks 5
  - (p) BSI 5
  - (q) Role of Botanical Gardens in plant conservation. 6

OR

- (r) Seed Banks 5
- (s) Principles for Ex-Situ Conservation 5
- (t) DBT and Conservation. 6