

**4/BOT-253(Th) Syllabus-2023**

**2026**

( May-June )

**FYUP : 4th Semester Examination**

**BOTANY**

**( Biodiversity and Conservation Biology )**

**( BOT-253 )**

**( Theory )**

**Marks : 56**

**Time : 3 hours**

*The figures in the margin indicate full marks  
for the questions.*

Answer Question No. 1 which is compulsory and  
**four** from the rest, selecting one from each Section.

1. Write notes on the following : 4×4=16

- (a) Consumptive values of biodiversity
- (b) Mass extinction
- (c) Sacred groves
- (d) BSI

**26D/1750**

**( Turn Over )**

**SECTION—I**

2. Define biodiversity. Describe the different types of biodiversity with examples. 2+8=10
3. Write notes on the following : 5+5=10
  - (a) India as a Megadiversity Nation
  - (b) Utilitarian values of biodiversity

**SECTION—II**

4. What is *ex situ* conservation? Describe the criteria involved for selection of species to be placed under *ex situ* conservation. What are the merits and demerits of *ex situ* conservation? 2+4+4=10
5. Describe the major threats to biodiversity in Meghalaya. 10

**SECTION—III**

6. What do you mean by access and benefit sharing? Discuss the key components of access and benefit sharing. 2+8=10
7. Write short notes on the following : 5+5=10
  - (a) WWF
  - (b) Function of the State Biodiversity Boards

**SECTION—IV**

8. What do you mean by biodiversity hotspots?  
Name the biodiversity hotspots found in  
India and describe any one of these in detail.

2+2+6=10

9. Write notes on the following :

5+5=10

(a) Biosphere reserves

(b) Threatened plant species of Meghalaya

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Answer Question No. 1 which is compulsory and  
four from the rest, selecting one from each Section.

1. Write notes on the following :

4×4=16

(a) Conservation values of biodiversity

(b) Mass extinction

(c) Sacred groves