

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

(2)

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

(3)

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
