

**2024**  
**M.Sc.**  
**Fourth Semester**  
DISCIPLINE SPECIFIC ELECTIVE – 03  
**BOTANY**  
*Course Code: MBOD 4.11(A)*  
(Plant Resource Utilization)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. Give an account on the use of plants by the indigenous communities in the Himalayas for 7+7=14
  - (a) medicine
  - (b) subsistence
2. Write a note on the following: 7×2=14
  - (a) Diversity and distribution of some economically important plants of North-East India.
  - (b) Value addition of some economically important plants of North-East India.

**UNIT-II**

3. Write a note on sacred groves. Briefly explain its role in the conservation of biodiversity. 10+4=14
4. Give an account on the approaches to drug discovery from ethnobotanical leads. 14

**UNIT-III**

5. Give a detailed account on utilization of plant resources in traditional healthcare system by the Nagas. 14
6. Discuss the traditional methods of soil conservation in agriculture in Nagaland. Comment on the critical role of traditional soil conservation methods. 10+4=14

#### UNIT-IV

7. Give an account on the management of *Alnus nepalensis* as firewood in jhum cultivation. 14
8. Give an account on the management of timber yielding plants in Nagaland with specific reference to *Tectona grandis*. 14

#### UNIT-V

9. Give an account on the following: 7×2=14
    - (a) Bioconversion of waste products by microbes
    - (b) Shifting cultivation and its ecological implications
  10. How do you think the introduction of GEMS would impact the environment? Discuss using appropriate reasons to support your answer. 14
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