

May 2025
M.Sc.
Fourth Semester
DISCIPLINE SPECIFIC ELECTIVE – 03
BOTANY
Course Code: MBOD 4.11 (A)
(Plant Resource Utilisation)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Write a note on the use of plants by the indigenous communities in Northeast India for 3½×4=14
 - (a) subsistence
 - (b) medicine
 - (c) cultural and
 - (d) religious practices
2. Write a note on diversity and distribution on exploited, underexploited, and unexploited plants. 14

UNIT-II

3. How does ethnobotany contribute to the discovery and development of new drugs? What role does ethnopharmacological validation of traditional medicine play in ensuring their efficacy and safety? 10+4=14
4. How does shamanism and sacred groves contribute to the cultural, spiritual, and environmental well-being of indigenous communities in Northeast India? 7+7=14

UNIT-III

5. How do the traditional agricultural practices of the Nagas contribute to soil conservation and sustainable land management? 14
6. How do various traditional knowledge systems contribute to sustainable agricultural practices in Nagaland? 14

UNIT-IV

7. Give an account of the management of timber yielding with special reference to *Phoebe* (Bonsom). 14
8. Write an account of the management of edible wild fruits with special reference to Nagaland. 14

UNIT-V

9. Write a note on each of the following: 7×2=14
(a) Soil erosion and its control
(b) Human impacts on mountain ecosystem
10. Write a note on each of the following: 7×2=14
(a) Biosafety of GEMS
(b) IPR in biotechnology
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