

Unit IV

8. Define ethnobotany and elaborate on its history, scope, significance and describe the methods used in ethnobotanical research. **14**
9. Write notes short on the following :
- (i) Describe the contributions of tribal knowledge in herbal medicine. **7**
- (ii) Write a note on the use of medicinal plants in Unani medicine. **7**



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M.Sc. (NEP-2020)

EXAMINATION, 2025

(Second Semester)

BOTANY

M24-BOT-203

Gymnosperms and Ethnobotany

Time : 3 Hours]

[Maximum Marks : 70

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

1. Write the following : $2 \times 7 = 14$

- (i) Siphonogamous
- (ii) Coralloid roots
- (iii) What is ethnobotany ?
- (iv) Xylem in Gnetales
- (v) Name *four* extant gymnosperms.
- (vi) Name a genus under Glossopteridales.
- (vii) Write the importance of indigenous medicine.

Unit I

2. Explain the classification scheme provided by Bhatnagar and Moitra (1996). **14**

3. Write brief notes on the following :

- (i) Briefly describe the general characters of gymnosperm. **7**
- (ii) Describe the features of Glossopteris and its fossil importance. **7**

Unit II

4. Give the comparative account of cycadeoidales and corditales with the help of a well labeled diagram. **14**

5. Write the following :

- (i) Reproductive structures of Ephedra. **7**
- (ii) Discuss the cone structure of Pinus. **7**

Unit III

6. Explain the process of fossilization, types of plant fossils, and techniques used in dating fossils. **14**

7. Write the following :

- (i) The Indian Gondwana flora with reference to the geological time scale. **7**
- (ii) Elaborate on any *two* significant fossil gymnosperms found in India. **7**