

M.Sc. (Botany) Semester - 3 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2024)
Plant Diversity And Resources (Ele-1 (New-23))

Time: 2:30 Hours**Marks:70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Do as direct (any seven out of eight questions each of two marks) (14)
- 1) Write any one economic importance of pteridophytes with an example.
 - 2) Give characteristics of the class Hepatocopsida with examples.
 - 3) Enlist the name of the series of the polypetalae subclass.
 - 4) What is circinate vernation in gymnosperms?
 - 5) Name two major forest products with scientific names.
 - 6) What is grassland management?
 - 7) Explain the defensive mechanism for the protection of traditional knowledge.
 - 8) What is farmer's exemption?
- Que.2 Answer the following (Any Two Questions) (14)
- 1) Compare the alternation of generations in bryophytes and pteridophytes.
 - 2) Discuss the life cycle of bryophytes.
 - 3) Describe the anatomical pattern in the leaves of pteridophytes with a diagram.
- Que.3 Answer the following (Any Two Questions) (14)
- 1) Explain the morphological and anatomical characteristics of reproductive organs in gymnosperms.
 - 2) Discuss the merits and demerits of Bentham and Hooker's classification of angiosperms.
 - 3) Describe the classification of gymnosperms with examples.
- Que.4 Answer the following. (Any Two Questions) (14)
- 1) Discuss minor forest products and their uses.
 - 2) Write a note on ethnobotany?
 - 3) Give detailed account of any one oil crop of India.
- Que.5 Answer the following (Any Two Questions) (14)
- 1) Discuss the objectives and features of the Biological Diversity Act, 2002.
 - 2) Explain the farmers' rights under PPV & FR Act.
 - 3) Give a short account on the protection of plant variety.
