

M.Sc. (Botany) Semester - 3 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2019)
Plant Diversity And Resources (Elective (New))

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

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

SECTION- I

- Que.1 Answer the following (Two short Questions)
- (A) Describe the economic importance of pteridophytes with examples. (07)
- (B) Discuss the reproductive organs of pteridophytes. (07)
- OR
- Que.1 Explain the general characteristics and classification of bryophytes. (14)
- Que.2 Answer the following (Two short Questions)
- (A) Explain the anatomical pattern in leaves and stems of gymnosperms. (07)
- (B) Discuss the economic importance of gymnosperms. (07)
- OR
- Que.2 Describe Bentham and hooker's classification of angiosperms. (14)
- Que.3 Do as direct (any seven out of eight questions each of one mark) (07)
- (A) Enlist the seven series of the monocot class of Bentham and Hooker's Classification.
- (B) Why is the Bentham and Hooker system of classification called a natural system of classification?
- (C) What type of fertilisation occurs in gymnosperms?
- (D) What type of wood is found in most gymnosperms?
- (E) Which class of bryophytes has a sporophyte with a horn-like capsule?
- (F) What are megaphylls?
- (G) Which pteridophyte forms symbiosis with Anabaena?
- (H) Which generation is dependent in bryophytes?

SECTION- II

- Que.1 Explain the importance of fodder grasses, forbs and legumes in livestock management. (14)
- OR
- Que.1 Answer the following (Two short Questions)
- (A) Discuss the cultivation and significance of any one minor staple crop. (07)
- (B) Write a note on grassland management. (07)
- Que.2 Give a detailed account of the Biodiversity Act, 2002. (14)
- OR
- Que.2 Answer the following (Two short Questions)
- (A) Describe the criteria and procedure for Plant Variety Protection (PVP). (07)
- (B) Explain the rights of farmers under the PPV&FR Act in India. (07)
- Que.3 Do as direct (any seven out of eight questions each of one mark) (07)
- (A) Which classification of Indian forests is widely accepted?
- (B) Define forbs.
- (C) What is ethnobotany?
- (D) Name three major staple crops of India with their scientific name.
- (E) Under which act is PVP implemented in India?
- (F) What is Traditional Knowledge (TK)?
- (G) Give any two the disadvantages of breeder's rights.
- (H) What are the objectives of UPOV?
