

M.Sc. (Botany) Semester - 3 (CBCS) Examination
Oct/Nov-2022 (NEW COURSE)
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**Q.1 Answer the followings (Two short Questions)**

- A. Discuss the morphological and anatomical characters of pteridophytes in leaf. **07**
 B. Explain the classification of pteridophytes. **07**

OR**Q.1 Explain the morphological pattern in leaf, stem and reproductive organ of bryophytes. 14****Q.2 Answer the followings (Two short Questions)**

- A. Discuss the anatomical feature in leaf and stem of gymnosperms **07**
 B. Explain any one family of monocotyledons with its economic importance. **07**

OR**Q.2 Write down Bentham & Hooker's classification system of angiosperms with its merits. 14****Q.3 Do as direct (any seven out of eight questions each of one mark) 07**

- 1) Draw the labelled diagram of life cycle of bryophytes.
- 2) How many types of vegetative reproduction are found in bryophytes?
- 3) Which pteridophytes are useful in nitrogen fixing and how?
- 4) Write down main characteristics of pteridophytes.
- 5) Which plant seed is known as 'Chilgoza'?
- 6) Explain about male gametophyte of gymnosperms.
- 7) Give any two demerits of Bentham & Hooker's classification system.
- 8) Write general characteristics of class gnetopsida.

SECTION-II**Q.1 Write a detail note on any two fibre crops. 14****OR****Q.1 Answer the followings (Two short Questions)**

- A. Discuss the classification of Indian forest. **07**
 B. Describe about major and minor forest products of India. **07**

Q.2 Explain in details about Biodiversity Act, 2002. 14**OR****Q.2 Answer the followings (Two short Questions)**

- A. Discuss the farmer's rights. **07**
 B. Write a note on protection of traditional knowledge. **07**

Q.3 Do as direct (any seven out of eight questions each of one mark) 07

- 1) Write scientific names of cotton seed and groundnut.
- 2) What is meaning of ethnobotany?
- 3) Define silviculture.
- 4) Explain economic importance of ragi and barley.
- 5) What is the validity of plant breeder's right?
- 6) What are the criteria for protecting new plant variety?
- 7) What are the objectives of plant variety protection?
- 8) Describe intellectual property?
