

M.Sc. (Botany) Semester - 3 (CBCS) Examination
Nov/Dec-2023 (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. Explain in detail life cycle of bryophytes. 07
- B. Describe the classification of bryophytes 07
- OR**
- Q.1 Elaborate the anatomical pattern in leaf and reproduction of pteridophytes.** 14
- Q.2 Answer the followings (Two short Questions)**
- A. Explain any two polypetalae family with its economic importance. 07
- B. Write a note on merits and demerits of Bentham and Hooker classification system. 07
- OR**
- Q.2 Explain anatomical pattern in stem and economic importance of gymnosperm.** 14
- Q.3 Do as direct (any seven out of eight questions each of one mark)** 07
- (1) Give any two economic importance of bryophytes with name.
 - (2) Explain sexual reproduction in bryophytes.
 - (3) State the name classes of pteridophytes classification.
 - (4) Draw the labelled diagram of life cycle in pteridophytes.
 - (5) Write down one name of family belongs to gamopetalae with two examples.
 - (6) State the names of series from monocotyledon class.
 - (7) Describe the general characteristics in leaves of gymnosperm.
 - (8) What are the orders of Coulter and Chamberlain classification?

SECTION-II

- Q.1 Write a detail note on any two millets.** 14
- OR**
- Q.1 Answer the followings (Two short Questions)**
- A. Write a note on ethnobotany. 07
- B. Explain the classification of Indian forests. 07
- Q.2 Describe in details about farmer's and breeder's right.** 14
- OR**
- Q.2 Answer the followings (Two short Questions)**
- A. Write a short note on Biodiversity Act. 07
- B. Explain the intellectual property on plant variety protection. 07
- Q.3 Do as direct (any seven out of eight questions each of one mark)** 07
- (1) Define traditional knowledge.
 - (2) What are the mechanisms for protection of traditional knowledge?
 - (3) Write scientific names of barley and castor.
 - (4) Explain how traditional knowledge is protected through trade secrets.
 - (5) What is silviculture?
 - (6) Give any two scientific names of minor forest product with family.
 - (7) Explain importance of fodder grass.
 - (8) What are the functions of Biodiversity Management Committee?
