

M.Sc. (Botany) Semester - 3 (CBCS) Examination
OCT/NOV-2024 (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.
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SECTION- I

Q. 1 Answer the followings (Two short Questions)

- (A) Discuss the classification of pteridophytes with characteristics. (07)
(B) Write a note on anatomical pattern in leaf of pteridophytes. (07)

OR

- Q. 1** Describe the general characteristics of bryophytes and explain its life cycle with diagram. (14)

Q. 2 Answer the followings (Two short Questions)

- (A) Elaborate the merits and demerits of Bentham & Hooker's classification system of angiosperms. (07)
(B) Describe any one family of subclass monochlamydeae with its economic importance. (07)

OR

- Q. 2** Give a detail account on classification and economic importance of gymnosperm. (14)

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

(07)

- (A) Explain the sexual reproduction in pteridophytes.
(B) State any one economic importance of pteridophytes with examples.
(C) Write affinities between bryophytes and pteridophytes.
(D) Which life cycle pattern is found in pteridophytes?
(E) What is female gametophytes in gymnosperms?
(F) Give two scientific names with family of angiosperms.
(G) Describe the reproductive organ of gymnosperms.
(H) Give the difference between polypetalae and gamopetalae subclass.

SECTION- II

- Q. 1** Write a note on the classification of Indian forest and silviculture. (14)

OR

Q. 1 Answer the followings (Two short Questions)

- (A) Explain the methods to study traditional knowledge of ethnobotany. (07)
(B) Write a note on any one fibre crop. (07)

- Q. 2** Discuss in detail the farmer and breeder's rights. (14)

OR

Q. 2 Answer the followings (Two short Questions)

- (A) Explain the biodiversity act in short. (07)
(B) Describe the mechanism to protect traditional knowledge (07)

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

(07)

- (A) Write the full form of UPOV.
(B) What is the mandate of UPOV?
(C) What is the role of the biodiversity management committee?
(D) What are the criteria for the protection of new plant variety?
(E) State the scientific name of barley and maize.
(F) Enlist two minor forest products with scientific and family.
(G) Explain the importance of fodder grasses.
(H) List out any two of the major pulses cultivated in Gujarat with scientific names.
