

PE-501-CV-19

M.Sc. BOTANY (4th Semester)

Examination, June 2022

PLANT RESOURCE UTILIZATION & CONSERVATION

Time : Three Hours]

[Maximum Marks : 80

[Minimum Pass Marks : 29

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

1. Answer the following short answer questions:

1x10=10

- Who coined the word "Biodiversity" and used for the first time.
- How many Hotspots are there in the World.
- How many centers of primary diversity of domesticated plants are recognized in the World.
- Give only two names (Scientific and common) of aromatic plants.
- What is man source of rattans?
- Who is regarded as father of the Green Revolution?
- Who maintains the Red Data Book.
- How many national parks and sanctuaries are there in Chhattisgarh.
- Where is the head quarter of BSI situated?
- What is the full form of NBPGR?

2. Answer the following short type questions:

2x5=10

- Enumerate the categories of threat according to IUCN.
- Give two names of plants having uses in following categories. (Both common and scientific names)
 - Food
 - Medicinal
 - Vegetable
 - Oils
- Write the names and families of following.
 - Bamboos
 - Gums
 - Tamarind
 - Resins(Give Botanical names also)
- Differentiate between "Ex-Situ" and "In-Situ" conservation.
- Functions of CSIR.

Section-B

15x4=60

Answer the following Long-Answer questions:

3. What do you understand about the concept of Biodiversity? Describe its role in Ecosystem functioning.

OR

What is the "statics of plant diversity in India? Describe in detail.

4. Write an essay on "World Centers of Primary Diversity".

OR

Describe the Botany, cultivation and uses of only five medicinal and five Aromatic plants of your area.

5. Write a point wise but detail account on "Important Timber Yielding plants".

OR

Write an Article on "Green Revolution Benefits and consequences".

6. What do you understand by strategies of conservation? Give a detail account of any one strategy.

OR

Write notes on:-

- Botanical Gardens
- Cryo Banks
- Held Gene Banks
- In Vitro Repositories
- Department of Biotechnology