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(20525)
M.Sc.-II Sem.

(Printed, pages 4)
Roll No.

NP-3335
M.Sc. (Bio-Tech.)
Examination, May-2025
PLANT GENETIC RESOURCE,
CONSERVATION AND SUSTAINABLE USE
(H-202)

M.Sc. (Bio-Tech.)

Time : Three Hours] [Maximum Marks : 50

Note : Attempt questions from **all** the sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt **all** parts. Each part carries **2** marks. Very short answer is required not exceeding **75** words.

1. Write short notes on **all** the following:
 - (a) IPGRI
 - (b) CGIAR

P.T.O.

- (c) GATT
- (d) N.I. Vavilov
- (e) Cryobanks

Section-B

(Short Answer Type Questions)

Note : Attempt any **two** questions out of the following **three** questions. Each question carries **5** marks. Short answer is required not exceeding **200** words.

2. What is alpha and beta biodiversity. What are the methods used to study alpha and beta biodiversity.
3. Differentiate between plant exploration, collection and germplasm collection. Enumerate the reasons for germplasm collection.
4. Write a note on any **one**:
 - (a) Biodiversity Bill-2002
 - (b) Geographic Indicator Bill

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Section-C

(Long Answer Type Questions)

Note : Attempt any **three** questions out of the following **five** questions. Each question carries **10** marks. Answer is required in detail.

5. Describe in detail evolution of Wheat and Rice and its genetic improvement program in India.
6. What do you understand by levels of biodiversity. What is the extent of biodiversity in plants. Write about the uses of biodiversity.
7. Write notes on any **two**:
 - (a) Introduction and exchange of plant genetic resources
 - (b) Red data book
 - (c) Endangered plant species

8. Write a note on Convention of Biodiversity and Cartagena protocol on Biodiversity.
9. Write notes on :
 - (a) Plant Breeders Rights (PBRs)
 - (b) Farmer's Rights (FRs)