A (Printed Pages 4)

(20622) Roll No

M.Sc.-II Sem.

NP-3335

M.Sc. (Bio-Tech.) Examination,

June-2022

PLANT GENETIC RESOURCE CONSERVATION AND SUSTAINABLE USE

(H-202)

M.Sc. (Bio-Tech.)

Time : Three Hours] *[Maximum Marks : 50*

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

Section-A

(Very Short Answer Type Questions)

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

P.T.O.

1. Write short notes on **all** the following :

   (a) Plant quarantine

   (b) NBPGR

   (c) Cryobanks

   (d) Biodiversity Bill 2002

   (e) TRIPs

Section-B

(Short Answer Type Questions)

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

2. Describe in brief the terminator and traitor techniques.

3. Explain the rate of loss of biodiversity along with the causes for the loss of the diversity.

4. What is Red Data Book? Explain in brief.

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 the evolution of rapeseed and mustard and its genetic improvement program in India.

6. What in cryopreservation? Ex- technique and descrit ...portance in the conservation of plant germplasm.

7. Give a detailed account of Plant Breeders Rights and Farmers Rights.

8. Discuss about the derived and molecular bases of taxonomic classification of Plant Genetic Resources.

9. Define biodiversity and genetic resources. Explain alpha vs. beta biodiversity and methods of their study.