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(20721) Roll No.
B.Sc. (Bio-Tech.)-III yr.

NS-3481 (CV-II)

B.Sc. Bio-Technology Examination,

June-2021

Recent Trends in Bio-Technology

(B-309)

B.Sc. (Bio-Tech.)

Time : 1½ Hours] [Maximum Marks : 75

Note : Attempt any **two** questions. **All** carry equal marks.

1. (i) Define Cryopreservation. Briefly describe the procedure of cryopreservation of germplasm under the following heads:
 - (ii) Freezing of Ovum
 - (iii) Freezing of Embryo

2. Write short notes on the following:
 - (i) What is Chloroplast Engineering
 - (ii) Gene transfer to chloroplasts
 - (iii) Limitations of chloroplast gene engineering
3. What is Biopesticides? How to make a insect resistance plant with crygene. Give an example.
4. Define Biofuel. Illustrate the technology used for ethanol production from cellulosic material.
5. What do you understand by Chloroplast engineering? Describe any one method used for genetic transformation of chloroplast.
6. What is RNA interference? How does RNA interference work for studying genes.

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7. Discuss various methods of Genetic Engineering used to enhance plant seed storage proteins with their importance.
8. What is N_2 fixation? How the process of N_2 fixation enhanced by biotechnology.
9. What are some essential qualities of biopolymers? Why biopolymer become increasingly important to our society?
10. What are therapeutic proteins? Write down their applications & importance.