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(20620) Roll No. ....  
B.Sc. (Biotech.)-III Year

**NS-3481 (CV)**

**B.Sc. (Biotechnology) Examination,  
June-2020**

**Recent Trends in Biotechnology  
(B-309)**

*Time : Two Hours ] [Maximum Marks : 75*

**Note :** Answer any **four** questions. **All** questions carry equal marks.

- ① Describe the Biopolymers ( $\beta$ -hydroxy butyrate) in the field of biotechnology?
- ② Write short notes on the following:
  - (i) DNA Chips
  - (ii) Therapeutic proteins
- ③ Define Biopesticides, and their types?
4. How do "M-Cells" facilitate the activity of edible vaccines?

**P.T.O.**

5. What are the typical steps to following during comparative analysis of chloroplast genomes?
6. What is the bovine embryo cryopreservation?
7. Which morphological, physiological, biochemical traits can analyse for  $N_2$  fixation?
- ⑧ Write short notes on the following :
  - (i) Seed Storage proteins
  - (ii) Chloroplast Engineering
9. What is the relationship between microbiology and membrane technology for biofuel production?
10. Write short notes on the following:
  - (i) Arabidopsis as model plant in genetic engineering?
  - (ii) Synthetic cell

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