

A (Printed Pages 3)
(20622) Roll No.
B.Sc.(Bio-Tech.)-III Yr.

NS-3481

B.Sc. (Biotechnology)

Examination, June-2022

Recent Trends in Bio-Technology

(B-309)

(B.Sc. Biotech.)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt **any five** questions.

1. Define Biopesticides. Discuss their applications with suitable examples. 15
2. What is Antisense technology? Write down the mechanism of antisense technology with suitable diagram. 15

P.T.O.

3. Write detailed notes on the following: 15
 - (a) Cassette vectors
 - (b) Process of Cryopreservation
4. What are the significance of chloroplast engineering? Explain various chloroplast engineering methods in detail. 15
5. Write detailed notes on the following: 15
 - (a) Synthetic cell
 - (b) Enzyme Nitrogenase
6. How DNA microarray chip created? Write down their applications and advantages. 15
7. What is termination seed? Write down the termination technology of GM seeds. 15
8. Define biofuel. Discuss applications of biotechnology in biofuel production with suitable examples. 15

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9. What is Human Genome Project? Write down the salient features of Human Genome project. Draw a representative diagram of human genome project. 15

10. Write detailed notes on the following: 15

- (a) Termination seed technology
- (b) What is RNA interference technology