

(20518)

Roll No.....

B. Sc. (Biotech.)-III Year

# NS-3481

B. Sc. (Biotechnology) Examination, May 2018

Recent Trends in Biotechnology

(B-309)

(New)

*Time : Three Hours]*

*[Maximum Marks : 75*

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

1. What is Chloroplast engineering ? Discuss this process in detail. 15
2. What are the therapeutic proteins ? Explain them with suitable examples. 15

(2)

3. Write short notes on the following : 7½×2=15
  - (a) DNA Chips
  - (b) Human Genome Project.
4. Describe cryopreservation. How is it used in transport of germplasm ? 15
5. Write short notes on the following : 7½×2=15
  - (a) Biopesticides
  - (b) Applications of Antisense RNA Technology.
6. How biotechnology is useful for biofuel production ? Discuss in detail. 15
7. Write short notes on the following : 7½×2=15
  - (a) Biotechnology of N<sub>2</sub> fixation
  - (b) Edible vaccines.
8. Describe the use of Biopolysaccharides (Xanthum gum) in the field of Biotechnology. 15

9. Write short notes on the following :  $7\frac{1}{2} \times 2 = 15$

- (a) Arabidopsis as model plant in genetic engineering
- (b) Cassette vectors.

10. Write notes on the following :  $7\frac{1}{2} \times 2 = 15$

- (a) Terminator Seed Technology
- (b) Synthetic Cell.