NS-3478 B.Sc. Bio-Technology Examination, June-2022 Industrial Bio-Technology

(B-306)

B.Sc. (Bio-Tech.)

Time: Three Hours] [Maximum Marks: 75

Note: Attempt any five questions.

- What do you understand by fermentation?
 Describe applications of fermentation technology.
 15
- 2. Write notes on the following $:7.5\times2=15$
 - (a) Downstream processing
 - (b) Product recovery

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- Give a detailed account on fermenters
 vs. bioreactor.
- Give a detailed account on commercial production of penicillin.
- B. Give a detailed account on commercial production of cellulases.
- **S.** Write note on the following: $5 \times 3 = 15$
 - (a) Batch culture
 - (b) Continuous culture
 - (c) Solid state culture
- 7. Write an essay on enzyme immobilization and its application.
 - 8. Write notes on the following :7.5 \times 2=15
 - (a) Lactose utilization
 - (b) Food adulteration

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- Give a detailed account on commercial production of acetic acid.
 15
- 10. Describe about stability analysis of bioreactors.