



RAN - 2103000206021105

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**T. Y. B. Sc. (Sem. - VI) Examination April - 2023**

**Bioscience (Microbiology) : BS - 605**

**Fermentation Technology**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

(1)

नीचे दृश्यावलोकन निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Sem. - VI)

Name of the Subject :

Bioscience (Microbiology) : BS - 605 Fermentation Technology

Subject Code No.: 2103000206021105

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.  
(3) Draw neat and labeled diagrams whenever necessary.

**Q. 1. Answer as directed.**

**12**

1. State the significance of screening.
2. Give any two examples of secondary screening method.
3. Enlist the carbohydrates use in the fermentation process.
4. What is continuous fermentor?
5. Enlist any four industrially important organic acids.
6. Describe in brief downstream processing.

**Q. 2. Write an essay on bioreactor.**

**14**

**OR**

**Q. 2. Answer the following question.**

**14**

1. Describe in brief Major components of Growth media.
2. Write a note on major products and microbes in industry.

**Q. 3.** Describe in details about screening techniques for industrial microbes. **14**

**OR**

**Q. 3.** 1. Describe in brief screening of antibiotic producing microorganism. **14**

2. Write note on stages of downstream processing.

**Q. 4.** **Write short notes on: (Any two)** **10**

1. Site directed mutagenesis.

2. Various uses of enzymes.

3. Crude fermentation medium.

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