

U03C15

Roll No.

Y-2250

B. Sc. (Part III) EXAMINATION, 2015

INDUSTRIAL MICROBIOLOGY

Paper Second

**(Fermentation Technology and Government
Regulations)**

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all the *five* questions. All questions carry equal marks. Draw suitable diagram wherever necessary.

1. Describe the components of a Fermentor with their function. What is the advantage of computer control of fermentation process ?

Or

Write notes on the following :

- (a) Continuous stirred tank fermenters
 - (b) Strain improvement process
2. Describe industrial production of Citric acid.

Or

Explain the Industrial production of amino acid, glutamic acid.

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3. Taking example describe industrial production of antibiotics.

Or

Explain industrial production of wine.

4. Describe industrial production of Cheese.

Or

Explain industrial production of single cell protein.

5. Describe the government program for biotechnology development in India.

Or

Write notes on the following :

- (a) Hazardous industrial waste and their disposal.
- (b) Government regulation in recombinant DNA research

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