## 2016

## BIOPROCESS TECHNOLOGY AND INDUSTRIAL BIOTECHNOLOGY

Time: Two Hours]

[Maximum Marks: 40

Answer any four questions. The questions are of equal value.

- 1. Describe the process of screening and improvement of industrially important microorganisms.
- 2. Write short notes on the following:
  - (a) Analysis of batch
  - (b) Growth models
- Describe, in brief, bioreactor designing and types of bioreactors.
- 4. Write short notes on the following:
  - (a) Measurement of growth in microbes
  - (b) Scale up and scale down process

- Write an essay on microbial leaching of minerals.
- 6. Write short notes on the following:
  - (a) Foam separation
  - (b) Mineral benefication
- Describe the process of technology used for the production of critic acid.
- 8. Write short notes on the following:
  - (a) Collection of literature
  - (b) Vitamins