

2019

(January)

Time : 2 hours

Full Marks : 40

Answer any four questions

All questions carry equal marks

Candidates are required to answer in their own words
as far as practicable

(BIOPROCESS AND INDUSTRIAL
BIOTECHNOLOGY)

1. Define fermentation and describe the significance of raw materials used in media preparation.
2. Write short notes on the following :
 - (i) Screening of microorganisms
 - (ii) Air sterilization.

3. What is bioreactor and explain different types of bioreactors with examples.
4. Write short notes on the following :
 - (i) Scale down process
 - (ii) Microbial growth cycle.
5. Explain the process of bioremediation of oil using microorganisms.
6. Explain cell separation techniques and describe its significance in downstream processing.
7. Write short notes on the following :
 - (i) Cephalosporin
 - (ii) Bioplastic.
8. Describe the concept of manuscript and explain the process of plagiarism check.

(Turn Over)