2015 (December)

Time: 2 hours

Full Marks: 40

The questions are of equal value.

Answer any four questions.

(BIOPROCESS TECHNOLOGY AND INDUSTRIAL BIOTECHNOLOGY)

- Enumerate the salient features of primary and secondary metabolites.
- 2. Write short notes on the following:
 - (a) Pulse bioreactors
 - (b) Fermentation economics

3.	Describe the	bioreactor	design	used	for v	vaste
	treatment.	***	J			

- 4. Write short notes on the following:
 - (a) Microbial growth cycle
 - (b) Scale up and scale down process
- Describe the use of microorganisms in mineral beneficiation and oilrecovery.
- 6. Write short notes on the following:
 - (a) Effluent treatment
 - (b) Product purification
- Describe the process technology used for the production of ethanol.
- 8. Write short notes on the following:
 - (a) Penicillin
 - (b) Plagiarism

