



Fermentation Technology

SE/IV/CBGS/BT/FT
Q.P. Code : 568401

Fermentation Technology (3 Hours)

[Total Marks : 80

(25)

3 to 6 pm

- N.B.:** (1) Question No.1 is compulsory.
(2) Attempt any Three questions out of remaining Five questions.
(3) Draw suitable diagrams wherever necessary.

1. Write short notes on any Four of the following :

- KLa
- Amylase
- Continuous culture
- Antifoams
- Biopesticides
- Submerged fermentation

- Explain applications of bubble column and air lift bioreactors. 10
 - Discuss Crab-Tree effect. 10
- Explain applications of r-DNA technology in fermentation? 10
 - Describe various parts of a fermenter with suitable diagram. 10
- How is oxygen demand and supply met and regulated? 10
 - Describe steroid transformation. 10
- Explain parameters of a typical media for industrial fermentation. 10
 - Discuss production of penicillin through fermentation. 10
- Write a note on improvement of industrial microorganisms. 10
 - Explain methods of cell concentration determination in the fermentation. 10