

Roll No.

Total No. of Pages : 01

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M.Tech. (Bio Tech) (Sem.-2)
FERMENTATION TECHNOLOGY

Subject Code : MTBT-203-18

M.Code : 76049

Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.

2. Each question carries TWELVE marks.

1. What are Bioreactors? How are they important? Discuss general kinetics and composition of Bioreactors.
2. Elaborate on design and working of Plug Flow, CSTR and Fluidized Bioreactors. Give specific examples of industrial applications of these.
3. Why and how are Strain improvement and Strain Storage carried out? Discuss methods giving specific example.
4. Discuss role of C, N Sources, Inhibitors, inducers, Precursors and antifoaming agents in fermentation media.
5. Explain Significance and method of Inoculum preparation for Industrial Fermentations.
6. Write notes on :
 - a) Hygiene and Safety in Fermentation Lab,
 - b) Importance of Synthetic, Semisynthetic and Complex media.
7. What are Primary and Secondary Metabolites? Elaborate on industrial production process of an important Primary Metabolite.
8. What is Biomass production? Discuss significance and industrial production of SCP and Cheese.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.