

Roll No.

Total No. of Pages : 01

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M.Tech.(Bio Tech.) (Sem.-2)
FERMENTATION TECHNOLOGY
Subject Code : MTBT-106
M.Code : 23006

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. Explain the Bio reactor working, composition and its accessories via drawing a neat and clean diagram.
2. Explain the Strain improvement techniques with their storage.
3. Explain Inoculum preparation for Industry fermentations.
4. Explain the hygiene and safety in fermentation lab.
5. Explain the production of SCP its advantages and disadvantages.
6. Explain the role of Inducers, inhibitors and precursor's fermentation media.
7. Explain any one example from of primary and secondary metabolites.
8. A population of bacteria is undergoing exponential growth in such a way that 5 hours after the culture is started the population has grown by 30%. Find the doubling time for this population.

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.