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Roll No. Total No. of	Page · 01
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Total No. of Questions: 08

M.Tech(Bio Tech) (2018 Batch) (Sem.-1) MICROBIAL BIOTECHNOLOGY

Subject Code: MTBT-101-18 M.Code: 75762

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 is the role of microbes in human therapeutics? What are recombinant drugs? How they are developed?
- 2. What is the role of microbes in waste water treatment and hazardous waste management?
- 3. Which are the most suitable microbial hosts for gene cloning and why?
- What are thermophiles? Explain their advantages and various industrial applications.
- What are various methods of genetic manipulation of micro organisms for strain improvement? Why it is necessary? Explain with suitable examples.
- Why preservation of microbes is necessary? What are various methods of culture preservation? What are germplasm banks? Give some examples.
- Which microbes are involved in industrial scale production of antibiotics? Explain in detail
 isolation and characterization of antibiotics from micro organisms and their production
 strategy.
- Explain/Define briefly
 - i. Biofilms
 - Micro organisms involved in production of vitamin B₁₂ and riboflavin
 - iii. Action of chloramphenicol on bacteria and protozoa
 - iv. Production of amylases

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.

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