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

Subject Code: MTBT-101-18 Paper ID: [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. Describe the role and importance of microbe in waste water treatment and hazardous waste management.
- 2. What is biotechnological importance of *Saccharomyces*? Describe its morphology, growth requirements and genetics.
- 3. Describe the primary and secondary screening of industrially important microbes with suitable examples.
- 4. Describe briefly genetic manipulation of microbes for strain improvement.
- 5. Write an essay on the role of microbes in the degradation of pollutants and toxic compounds.
- 6. Discuss the potential of thermophilic Archae in biotechnology with suitable examples.
- 7. Describe the microbial sources and their importance in the production of vaccines and antibiotics.
- 8. Write short notes on:
 - a) Biodegradable plastics
 - b) Bioinsecticides
 - c) Microbial enzymes.

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