



**AF-3554**

M.Sc. (Final)  
Term End Examination, 2017-18

**MICROBIOLOGY**

Paper - IV

Microbial Technology

*Time* : Three Hours]      [*Maximum Marks* : 100

[*Minimum Pass Marks* : 36

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**Note** : Answer any **five** questions. All questions carry equal marks.

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1. Explain in detail about efficiency of growth and product formation.
2. Write an essay on growth stoichiometry.
3. Write an account on cell reactor with well labelled diagram.
4. Write an essay on large scale production.
5. How is the acetic acid produced in industry?

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6. Write an essay on metabolic pathways involved in industrial productions.
7. Write short notes on the following :
  - (a) Biopesticides
  - (b) Bioremediation
8. Explain in detail about mushroom production.
9. Explain on different strategies involved in selection and improvement of recombinant organisms.
10. Write an essay on product recovery.  
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