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MBH 552

IV Semester M.Sc. Degree Examination, September/October 2022
(CBCS-PG-CGPA)
MICROBIOLOGY
Industrial Microbiology

Time : 3 Hours

Max. Marks : 70

I. Answer **any five** of the following : **(5×3=15)**

- 1) Trophophase.
- 2) Substrate level phosphorylation.
- 3) Fed batch fermentation.
- 4) Growth factors.
- 5) Filter sterilization.
- 6) Buffers.
- 7) Citric acid.

II. Write notes on **any five** of the following : **(5×5=25)**

- 8) Antifoaming agents.
- 9) Continuous fermentation.
- 10) Preservation of microbes.
- 11) Sterilization of media.
- 12) Production of vinegar.
- 13) Bioethanol production.
- 14) Culture collection centers.

III. Answer **any three** of the following : **(3×10=30)**

- 15) Give an account on the strain improvement.
 - 16) Describe the steps involved in purification of fermented products.
 - 17) Explain the role of energy sources and inducers in the formulation of media.
 - 18) Explain the different methods of screening and isolation of the industrially important microbes.
 - 19) Give an account on good laboratory and manufacturing practices.
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