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**MBH 502**

**III Semester M.Sc. Degree Examination, December 2018**  
**MICROBIOLOGY (CBCS-PG-CGPA)**  
**Industrial Microbiology**

Time : 3 Hours

Max. Marks : 70

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

- 1) Explain the anerobic fermentation process and their applications.
- 2) Describe the bioprospecting of industrially important microbes and their uses.
- 3) Explain the downstream processing and steps involved in the purification of fermented products.
- 4) Describe the production and formulation of biofertilizers.
- 5) Discuss on culture collection centres and their importance.

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

- 6) Fed batch fermentation.
- 7) Secondary metabolites.
- 8) Filter sterilization.
- 9) Genetic manipulation.
- 10) Strain improvement.
- 11) Bioreactor.
- 12) Industrial enzyme production.
- 13) Production of Beer.

P.T.O.



III. Write short notes on **any five** of the following :

**(5×3=15)**

- 14) Antifoam agents.
  - 15) Buffer.
  - 16) Gluconic acid.
  - 17) Inhibitors in industrial media.
  - 18) Single cell oil.
  - 19) Yeast.
  - 20) Selective media.
  - 21) Substrate.
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