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VI Semester B.Sc. Degree Examination, September - 2021**MICROBIOLOGY****Industrial Microbiology and Microbial Technology****Paper : VIII****(CBCS Scheme)****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

1. Answer all sections.
2. Draw diagrams wherever necessary.

SECTION - A**I. Answer the following.****(5×2=10)**

1. Crude carbon source.
2. Aeration.
3. Impeller blades.
4. Distilled beverages.
5. Amylase.

SECTION - B**II. Answer any Four of the following :****(4×5=20)**

6. Describe the method of continuous sterilization of media.
7. Draw a neat labelled diagram of a Basic Fermentor.
8. Explain any two methods of strain improvement of industrial microbes.
9. Describe the production of methane gas as a biofuel.
10. Represent a flowchart of Human Insulin production.

SECTION - C**III. Answer any Three of the following.****(3×10=30)**

11. Write notes on Batch and continuous fermentation processes. Add a note on its significance.
12. Describe the construction of Air lift Fermentor and tower fermentor. Add a note on its significance.
13. Describe the production of Beer and mention any two types.
14. Explain the production of Penicillin and its purification steps.

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15. Write notes on :

- a) Primary screening of industrial microbes.
- b) Citric acid production.

SECTION - D

IV. Answer in **One** line only.

(10×1=10)

16. Metabolic engineering.
17. Submerged fermentation.
18. Baffles.
19. Pleurotus.
20. Freeze drying.
21. Entrapment.
22. HPLC
23. Cooling jacket.
24. Glutamic acid
25. Saccharomyces.

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