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**25-BC-22**

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION  
MAY - JUNE 2025**

**BIOCHEMISTRY**  
**Paper - II**  
**[Microbial Biochemistry]**

*[Max. Marks : 75]**[Time : 3:00 Hrs.]**[Min. Marks : 26]*

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**Note :** Candidate should write his/her Roll Number at the prescribed space on the question paper.  
Student should not write anything on question paper.  
Attempt all five questions. Each question carries an internal choice.  
Each question carries **15 marks**.

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**Q. 1** Differentiate gram positive and gram negative bacterial cell wall ?

**OR**

Write a note on -

- i) Flagella and Pilli.
- ii) Identification of Bacteria.

**Q. 2** Explain Nutritional Classification of bacteria with suitable examples ?

**OR**

Write an detail account on continuous culture technique ?

**Q. 3** Write note on (**any two**) -

- i) Bacterial Photosynthesis.
- ii) Bacterial Fermentation.
- iii) Food Borne infection.
- iv) Application of Microbes in food industry.

**Q. 4** Describe microbial assay of vitamins and amino acids ?

**OR**

What do you mean by Brewing ? Explain manufacturing process of Beer ?

**P.T.O.**

**Q. 5** Write an detail account on virus - Host interaction ?

**OR**

Write a note on -

- i) Replication of RNA virus.
- ii) Vaccines and Prevention.

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