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24-BC-22

**M.Sc. II SEMESTER [MAIN/ATKT] EXAMINATION
JUNE - JULY 2024**

BIOCHEMISTRY
Paper - II
[Microbial Biochemistry]

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

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 five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Describe molecular organization of bacterial cell wall. (15 Marks)

OR

Describe identification and classification of bacteria. (15 Marks)

Q. 2 Describe methods of sterilization and disinfectant. (15 Marks)

OR

Write notes on -

i) Bacterial growth and kinetics. (7½ Marks)

ii) Pure culture technique. (7½ Marks)

Q. 3 Describe application of microbes in food industry, dairy products and food preservation. (15 Marks)

OR

Write notes on -

i) Bacterial fermentation and its types. (7½ Marks)

ii) Food spoilage and food borne infection. (7½ Marks)

Q. 4 Describe continuous and batch culture techniques. (15 Marks)

OR

P.T.O.

Write notes on -

- i) Single cell protein. (7½ Marks)
- ii) Types and design of Fermentors. (7½ Marks)

Q. 5 Write notes on -

- i) Viruses structure proteins. (7½ Marks)
- ii) Vaccines and prevention. (7½ Marks)

OR

Write notes on -

- i) Methods of virus assay. (7½ Marks)
- ii) Replication of DNA viruses. (7½ Marks)

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