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SUBJECT CODE NO: - BNP - 2754
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. (NEP) (P-2024) S.Y Sem III
Examination November / December 2025
Horticulture (Agricultural Microbiology)

[Time: 1:00 Hours]**[Max. Marks:30]**

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions in Part A and any four in Part B.
- 2) Draw diagram whenever necessary.

Part A (Attempt all five questions, 5x2=10 marks)**Q1 Choose correct answer from Given Option****10**

- 1) Germ theory of disease was proposed by:
 - a) Anton van Leeuwenhoek
 - b) Robert Koch
 - c) Louis Pasteur
 - d) Joseph Lister
- 2) Bacteria are:
 - a) Eukaryotic
 - b) Prokaryotic
 - c) Fungi
 - d) Virus
- 3) Biofertilizers in horticulture include:
 - a) Rhizobium, Azotobacter, Azospirillum
 - b) Bacillus only
 - c) Yeast only
 - d) None
- 4) Phosphate solubilizing bacteria include:
 - a) Bacillus
 - b) Saccharomyces
 - c) Penicillium
 - d) Aspergillus
- 5) Rhizobium infects which plant tissue?
 - a) Leaf
 - b) Root nodule
 - c) Stem
 - d) Flower

**Part B (Choose Any Four Questions out of six-, 4x5=20 marks)****20**

- Q2** Define Microbiology and explain its scope and importance in agriculture and horticulture.
- Q3** Describe size, shape, and arrangement of bacterial cells.
- Q4** Discuss types importance of biofertilizers used in horticulture.
- Q5** Explain the methods refrigeration used for preservation of microbial cultures
- Q6** Explain the chemical methods of sterilization with examples.
- Q7** Discuss the structure and importance of algae in the ecosystem.