

Microbiology**[NEP]****B.Sc. First Semester End Examination-2024****PAPER-MCB SEC 101T****Full Marks: 20****Time: 01 Hr.***The figures in the right hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable**Illustrate the answers wherever necessary.***Group A****1. Answer any FIVE questions of the following: 5x2= 10**

- a) Write down the differences between biofertilizer and chemical fertilizer. 2
- b) What is PSM? Give example. 1+1
- c) What is meant by commensalism? 2
- d) What is pseudomycorrhizae? Give example. 1+1
- e) How do biofertilizers function? 2
- f) What kind of genetically modified crops are available in India? 2
- g) Write down the names of two fungus biosecticide. 1+1
- h) What is Bt toxin? 2

Group B

2. Answer any one question of the following: 1x10= 10

- a) What is Endo end Mycorrhizae? Briefly explain the mass inoculums procedure of VAM.

Describe the process of commercial manufacture Azotobacter.

Give example of viral insecticides. (2+5)+(4+1)

- b) Briefly describe the isolation characteristics of Rhizobium bio fertilizer in your laboratory explain. How do you prepare it in your laboratory explain.

Write down the advantages and disadvantages of usages of biofertilizers.

What is the impact of biofertilizer on environment? – Explain

(2+4)+2+2
