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**MBE 460** 

## II Semester M.Sc. Degree Examination, September/October 2022 (CBCS-PG-CGPA) MICROBIOLOGY Bioinoculants (Open Elective)

Time: 3 Hours Max. Marks: 70

I. Write short notes on any five of the following:

 $(5 \times 3 = 15)$ 

- 1) Nursery inoculants.
- 2) Azolla.
- 3) Bacillus thuringiensis.
- 4) Carrier materials.
- 5) Nitrogenase.
- 6) Mycoparasitism.
- 7) Crystal protein.

II. Write a note on any five of the following:

 $(5 \times 5 = 25)$ 

- 8) Symbiotic Nitrogen fixation.
- 9) Metarrhizium.
- 10) Microbial inoculants.
- 11) Phosphate solubilizers.
- 12) Algae as biofertilizers.
- 13) Azotobacter.
- 14) Seedling and soil inoculants.

## III. Answer any three of the following:

 $(3 \times 10 = 30)$ 

- 15) Explain ISI standards involved in bioinoculant production.
- 16) Discuss on the types and importance of Mycorrizae in plant growth promotion.
- 17) Explain the role of *Trichoderma* as a biocontrol agent.
- 18) Write an account on history and scope of Bioinoculants.
- 19) Discuss on the production and application of Rhizobium fertilizer.

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