

B.Sc. Semester-III Examination, 2022-23**BOTANY [Honours]**

Course ID : 31315 Course Code : SH/BOT/305/SEC-1

Course Title : Biofertilizer

Time : 2 Hours

Full Marks : 40

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***UNIT-I**1. Answer any **five** from the following questions:

2×5=10

- What is PSM? Cite two examples of PSM.
- Mention two disadvantages of biofertilizer.
- What do you mean by PGPR?
- Mention the carrier materials used to produce *Azospirillum* fertilizer.
- Name two species of *Azolla* used to produce biofertilizer.
- Why ectomycorrhiza are called 'sheathing mycorrhiza'?
- Name two green manures.
- What do you mean by actinorhizal symbiosis?

UNIT-II2. Answer any **four** from the following questions:

5×4=20

- What are Municipal biodegradable wastes? Write short note on methods of making biocompost. 2+3=5
- Briefly mention the application of *Azotobactor* as biofertilizer.
- Make a short note on the isolation procedure of VAM.
- Mention the process of preparation of *Rhizobium* starter culture.
- Briefly describe the *Azolla* cultivation procedure.
- What is green manuring? Mention the characters of crop used as green manure.

UNIT-III3. Answer any **one** from the following questions:

10×1=10

- What do you mean by *Azolla*-*Anabaena* association? Mention the procedures of large scale production of cyanobacteria. 2+8=10
- What is vermicomposting? Describe the method of vermicomposting and its field application. 2+4+4=10