

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Hons.) (Agriculture) (Sem.-5)

BIOPESTICIDES & BIOFERTILIZERS

Subject Code : BSAG-521-19

M.Code : 90958

Date of Examination : 06-01-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

- 1. Write briefly :**
- Write short notes on *Azorhizobium*
 - Write short notes on peltons
 - Write short notes on associative symbiosis
 - Write short notes on Nostoc.
 - What are mycorrhizae?
 - Who discovered biopesticides?
 - Give two examples of commercial biopesticides.
 - Write short notes on importance of biopesticides in organic farming.
 - Write short notes on Hapalosiphon.
 - What are different categories of biopesticides?

SECTION-B

2. Give a comparative account of bio pesticides and chemical bio fertilizers.
3. Give a concise account of nitrogen fixation in cyanobacteria.
4. What do you understand by Frankia-induced nodulation?
5. Discuss advantages of liquid bio fertilizers over the charcoal based bio fertilizers.
6. Give an account of FCO specification and quality control of bio fertilizers.

SECTION-C

7. What are Biofertilizers? Describe different types of bacterial biofertilizers and their mass production and application.
8. Discuss the mechanism of nitrogen fixation in root nodules.
9. Give a detail account of large scale production, method of application and quality control of biopesticides.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.