

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. - Honours (Agriculture) (Sem-6)

HI-TECH. HORTICULTURE

Subject Code : BSAGXXX-19

M.Code : 91801

Date of Examination : 26-06-2023

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 :

- a) Advantages of high density planting.
- b) Role of growth regulators in culture media.
- c) Applications of global positioning system.
- d) Precision farming in horticultural crops.
- e) Variable rate application.
- f) Remote sensing.
- g) Fertigation in fruit crops
- h) Glasshouse vs. Polyhouse
- i) Mechanized harvesting of fruits.
- j) Automation in protected structures.

SECTION-B

2. What are the advantages and potential areas for hi-tech horticulture in India?
3. What are the modern field preparation methods and equipments used in horticulture?
4. What are the modern irrigation methods? Describe the structure and working of drip irrigation method with a diagram.
5. Describe various tree architectural tools with examples.
6. What are the various types of net house structures? Explain in detail.

SECTION-C

7. Give the detailed description of the different steps involved in micropropagation.
8. What is trilateration? What is the working principle and applications of GPS?
9. Describe various techniques followed in automation greenhouses? Give a detailed overview.

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.