

Roll No.

Total No. of Pages : 02

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B.Sc. (Hons.) Agriculture (Sem.-4)

FARMING SYSTEMS AND SUSTAINABLE AGRICULTURE

Subject Code : BSAG-407-19

M.Code : 79746

Date of Examination : 03-01-2023

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 **SIX** 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 short notes on :
 - a. Cropping system
 - b. Diversified farming
 - c. LEISA
 - d. Vermicompost
 - e. Commercialized farming
 - f. Transhumant
 - g. Cropping pattern
 - h. Bio-intensive gardening
 - i. Energy plantation
 - j. Shifting cultivation.

SECTION-B

2. Define integrated farming system. Write their principles and aims.
3. Discuss Intensity of the Rotation, its formula and give example.
4. Discuss HEIA technique of sustainability.
5. Discuss principles of conservation agriculture.
6. Discuss a farming system model under irrigated situation for livelihood security of small and marginal farmers.

SECTION-C

7.
 - a. Define sustainable agriculture. Discuss concept of sustainable agriculture.
 - b. Discuss the problems and impact of agriculture. Write down the indicators of agricultural sustainability.
8.
 - a. Define integrated farming system and write down the advantages of integrated farming systems.
 - b. Discuss different components of farming system.
 - c. Define intercropping system, its objectives and their management practices.
9.
 - a. Discuss agro-forestry its importance and commonly followed agro-forestry systems in India.
 - b. What do you know about site specific IFS for different climatic zones?

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.