

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Agriculture) (Sem.-5)
GEO-INFORMATICS, NANO-TECHNOLOGY AND
PRECISION FARMING

Subject Code : BVAG-507-19

M.Code : 90946

Date of Examination : 16-07-22

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) Precision agriculture
- b) Geo-informatics
- c) Global positioning system
- d) Remote sensing
- e) STCR approach
- f) Nano-technology
- g) Nano-particles
- h) Nano-pesticides
- i) Nano-sensors
- j) Geospatial technologies

SECTION-B

2. Discuss in details the concepts and techniques of precision agriculture.
3. Elaborate the role of geo-informatics for their use in Precision Agriculture.
4. Discuss the role of geo-informatics in soil mapping and fertilizer recommendation.
5. Describe nano-technology with respect to its concepts and techniques used in agriculture.
6. Discuss the STCR approach for precision agriculture.

SECTION-C

7. Discuss Global Positioning System (GPS) with respect to crop simulation models and optimization of agricultural inputs.
8. Discuss the role of remote sensing during image processing and interpretation in agriculture.
9. Elucidate the use of nanotechnology in seed, water, fertilizer and plant protection for scaling-up farm productivity.

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.