Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 09

B.Sc.(Hons.) (Agriculture) (Sem.–5)

GEO-INFORMATICS, NANO-TECHNOLOGY AND PRECISION FARMING

Subject Code : BVAG-507-19

M.Code : 90946

Date of Examination : 02-01-2023

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 :

a) Global positioning system

b) Remote sensing

c) STCR approach

d) Nano-technology

e) Nano-particles

f) Nano-pesticides

g) Precision agriculture

h) Geo-informatics

i) Nano-sensors

j) Geospatial technologies.

SECTION-B

2. Discuss in detail the issues and concerns for precision agriculture.

3. Elaborate the concepts, tool and techniques used in geo-informatics.

4. Discuss the role of geo-informatics in crop differentiation and yield monitoring.

5. Describe nanotechnology with respect to its concepts and techniques in agriculture.

6. Discuss the STCR approach for precision agriculture.

SECTION-C

7. Discuss in detail about Global Positioning System (GPS) with respect to its components and functions.

8. Elaborate nano-scale effects of nano-particles, nano-pesticides, nano-fertilizers.

9. Elucidate the use of nano-technology 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.