MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION
B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: AGRO 3612	Title	: Geo-informatics and Nano-technology and Precision Farming		
Credits	: 2 (1+1)				
Day & Date	: Tuesday, 04.07.2023	Time	: 14:00 to 16:00 hrs.	Total Marks	: 40

Note :
1. Solve ANY EIGHT questions from SECTION 'A'
2. All questions from SECTION 'B' are compulsory
3. All questions carry equal marks.
4. Draw neat diagram wherever necessary.

SECTION 'A'

Q.1 Define Geo-informatics and explain in short principles of Geo-informatics.

Q.2 What is Remote sensing? Give its application in agriculture.

Q.3 Define Nano-fertilizers and explain how nano-fertilizers are more beneficial as compared to chemical fertilizers.

Q.4 Define Precision farming. Enlist the components of precision farming and explain any one in detail.

Q.5 What is Global Positioning System (GPS)? Explain in short its components and functions.

Q.6 Define Nano-technology. Give its application in agriculture.

Q.7 What is STRC approach? Give its importance in precision farming.

Q.8 Define Crop model. Enlist the various types of model and explain simulation model.

Q.9 What are Nano-pesticides? State the formulations of nano-pesticides and its advantages.

Q.10 Write short notes on (Any Two):

a) Soil mapping

b) Constraints of precision farming in India

c) Soil-cum-plant analysis based SSNM approach

SECTION 'B'

Q.11 Expand the following abbreviations:

1) GIS   2) VRT   3) HVI   4) IRS

Q.12 Fill in the blanks:

1) _____ is an act of examining image for the purpose of identifying objects and judging their significance.

2) _____ is a powerful set of tools for collecting, storing and retrieving the data.

3) Size of nanoparticle is _____.

4) _____ are crop yield measuring devices installed in harvesting equipment.

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