



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2022

Course Name – Geoinformatics and Nano-Technology and Precision Farming

Course Code - CC-BAG577(T)

(Semester V)

Library
Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Select the navigation system based on a network of satellites that helps users to record positional information
 - a) GPS
 - b) GIS
 - c) Remote sensing
 - d) All of these
- (ii) Choose the size range on a nanoscale
 - a) 1-10 nm
 - b) 1-100 nm
 - c) 100-200 nm
 - d) 0-1nm
- (iii) Choose the correct number: The ratio between distance or area on a map and corresponding distance or area on ground
 - a) Model
 - b) Scale
 - c) Image
 - d) Chart
- (iv) Write the word from which the word nano came
 - a) Greek word
 - b) Italian word
 - c) French word
 - d) Latin word
- (v) What is the Fertilizer recovery efficiency of P in rice
 - a) 20-30 %
 - b) 30-40 %
 - c) 60-70 %
 - d) 10-20 %
- (vi) Write the range of Scale used for mapping multispectral satellite data
 - a) 1:20000
 - b) 1:50000
 - c) 1:40000
 - d) 1:30000
- (vii) What is the Fertilizer recovery efficiency of N in rice
 - a) 40-60%
 - b) 10-20%

2. Explain Precision Agriculture (2.5)
 3. Explain the need of precision farming (2.5)
 4. Explain Yield Monitoring (2.5)
 5. Explain Soil Mapping (2.5)
 6. Express your opinion about GIS (2.5)
 7. What are the importance of GIS (2.5)
 8. Express your opinion about Global Positioning System (2.5)
 9. Discuss about the different components of GPS (2.5)
 10. Describe about decision rules to estimate Site-Specific Nutrient management parameters (2.5)
 11. Discuss about importance of Hyperspectral Remote Sensing (2.5)
- OR**
- Discuss about the different types of remote Sensing (2.5)

Group-C
(Long Answer Type Questions)

5 x 1=5

12. Express your opinion about Soil Test Crop Response (STCR) (5)
- OR**
- Explain about the use of nanotechnology in Fertilizers (5)
