



BRAINWARE UNIVERSITY

Brainware University 398, Ramkrishnapur Road, Barasal Kolkala, West Bengal-700125

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)

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%

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	c) 30-40% Choose the correct answer:Aerial photography is	d) 50-70% also called as	
	a) Airborne imagery c) Air imagery What does the term "Geo" stands for in Geoinfol	b) Airborne sheet d) All of these	
	a) Earth's surface or environmentc) GeologyPollen flight is not common in which type of crop	b) Geographyd) It doesn't have any meanings	
	a) Wind pollinated cropsc) Cross-pollinated cropsShow the correct answer:Topographic map is als	b) Self-pollinated crops d) None of these called	
	a) Topographic sheetc) Topographic paperIn which year the GIS was first coined	b) Topographic module d) None of these	
	a) 1968c) 1992Show the correct answer:Geoinformatics is a ne spatial data and the processing techniques in sp	b) 1986 d) 1990 w discipline concerned with the of atial information system	
(xiv	a) GPSc) Remote sensing) What can be used as potential variables for crop	b) GIS d) Variable rate applicator	
(xv	a) Narrow band vegetation indicesc) Stress indices) Identify the correct answer:GIS represents data	b) Physiological indices d) All of these of	
(xv	a) Trees c) Lands i) 3D coordinates defines object location in	b) Water bodies d) All of these _ space	
(xvi	a) 3D c) 1D ii) Photogrammetry methods include which of the	b) 2D d) Both a and b following data	
	a) Projective c) Geometry iii) Which one of the following is an example of na	b) Optics d) All of these	
(xi:	a) Cooking smokec) Forest firesx) Show the correct answer: The concept of SSNM researchers across	b) Quantum dots d) All of these in rice was developed in cooperation with	n
(x:	a) Africa c) Asia x) What is dimension of nano particle used in nan	b) South America d) Europe otechnology	
	a) 1-10 nm c) 1-50 nm	b) 1-100 nm d) 1-100 cm	
	Gro	ир-В	
	(Short Answer 1	ype Questions)	2.5 x 10=25

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O. Describe about decision rules to estimate Site-Specific Nutrient management parameters 1. Discuss about importance of Hyperspectral Remote Sensing OR Discuss about the different types of remote Sensing Group-C	(2.5) (2.5) (2.5)
OR Discuss about the different types of remote Sensing	(2.5)
A Perspectial Remote Sensing	
Discuss about importance of Hyperspectral Remote Sensing	
Tales to estimate Site-Specific Nutrient management	
0. Describe about decision rules to estimate St.	(2.5)
. Discuss about the different components of one	(2.5)
Express your opinion about Global position in a	(2.5)
What are the importance of Cic	(2.5) (2.5)
	(2.5)
	(2.5)
Explain the need of precision farming	(2.5)
Explain Precision Agriculture Kolkata, West Bengal-700125	
	Explain the need of precision farming Explain Yield Monitoring Explain Soil Mapping Express your opinion about GIS What are the importance of GIS Express your opinion about Global Positionian Southern