



BRAINWARE UNIVERSITY

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

Term End Examination 2024-2025
Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023
Course Name – Agri-Informatics
Course Code - CC-BAG374(T)
(Semester III)

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) The term, Dot Matrix, is associated with _____.
a) Printer
b) Scanner
c) Keyboard
d) Mouse
- (ii) Full form of LCD is:
a) Liquid Crystal Display
b) Lead Crystal Display
c) Liquid Central Display
d) Light Central Display
- (iii) CTRL, Shift and Alt, these keys in the keyboard are also known as _____.
a) Function
b) Modifier
c) Alpha Numeric
d) None of these
- (iv) State the Full form of URL.
a) Unique Reference Label
b) Uniform Reference Label
c) Uniform Resource Locator
d) Unique Resource Locator
- (v) In Operating Systems, which of the following is/are CPU scheduling algorithms?
a) Priority
b) Round Robin
c) Shortest Job First
d) all of the mentioned
- (vi) DOS stands for _____.
a) Disk Operating System
b) Data Operating System
c) Disk Operation System
d) Disk Opening System
- (vii) What is a database?
a) Organized collection of information that cannot be accessed, updated, and managed
b) Collection of data or information without organizing
c) Organized collection of data or information that can be accessed, updated, and managed
d) Organized collection of data that cannot be updated
- (viii) Which of the following is known as a set of entities of the same type that share same properties, or attributes?

- a) Relation set
b) Tuples
c) Entity set
d) Entity Relation model
- (ix) The DBMS acts as an interface between _____ and _____ of an enterprise-class system.
- a) Data and the DBMS
b) Application and SQL
c) Database application and the database
d) The user and the software
- (x) Find the mode and median of the 9 consecutive number 12,7,8,14,21,23,27,7,1.
- a) 14, 8
b) 27, 14
c) 12, 7
d) 7, 8
- (xi) If $P(x) = 0.8$ and $x = 3$, then find the value of $E(x)$.
- a) 2.6
b) 2.2
c) 2.4
d) 2.8
- (xii) For a normal curve, the Q.D., S.D. and M.D. are in the ratio?
- a) 10:15:12
b) 10:12:15
c) 15:10:12
d) 12:15:10
- (xiii) Which application is NOT a common use of agri-informatics?
- a) Weather forecasting
b) Crop monitoring
c) Pest control
d) Land use mapping
- (xiv) What technology is used for hyperspectral imaging in agri-informatics?
- a) Hyperspectral imaging
b) GPS
c) RFID
d) Blockchain
- (xv) What is the primary focus of data analysis and decision-making in agri-informatics?
- a) Data analysis and decision-making
b) Crop cultivation
c) Farm equipment maintenance
d) Weather forecasting
- (xvi) In agri-informatics, what is the primary purpose of identifying and monitoring animals?
- a) Identifying and monitoring animals
b) Tracking animal behavior
c) Enhancing meat quality
d) Reducing water usage
- (xvii) What is a potential benefit of reducing chemical pesticide used in agriculture?
- a) Reducing chemical pesticide use
b) Increasing pesticide usage
c) Monitoring wildlife populations
d) Promoting organic farming
- (xviii) What technology is commonly used for robotics in agri-informatics?
- a) Monitoring the food supply chain
b) Tracking soil composition
c) Identifying crop diseases
d) Analyzing weather patterns
- (xix) What is the primary goal of assisting farmers in decision-making in agri-informatics?
- a) Animal wearables
b) Nuclear energy
c) Geothermal power
d) Wind energy
- (xx) What is a potential benefit of enhancing animal health and productivity in agriculture?
- a) Drones
b) Telekinesis
c) Genetic engineering
d) Water wheels

Group-B

(Short Answer Type Questions)

2.5 x
10=25

2. Explain how GIS assists in precision farming. (2.5)
3. What benefits does big data analytics offer in agriculture? (2.5)
4. Write down the importance of expert system. (2.5)
5. How can IoT improve livestock management? (2.5)
6. How can robotics help in farming? (2.5)
7. What do wireless sensors track in real-time? (2.5)
8. Why is data management important in farming? (2.5)

9. How can VRT reduce environmental impact?
10. Explain about Agro-Sense project.
11. Write down the characteristics of Expert System.

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(2.5)

(2.5)

(2.5)

OR

Express in your words about Geographical Information System.

(2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Evaluate the applications of artificial intelligence (AI) in agri-informatics, focusing on crop management and pest control. (5)

OR

Analyze the impact of weather forecasting accuracy on crop planning and disaster preparedness. (5)
