

AI3021 IT IN AGRICULTURE

Question bank

Unit 1

Part A

1. Necessity of the precision agricultural Farming.
2. Remote sensing data is helpful in identifying the stage of the crop Justify.
3. Define Yield mapping system
4. Define GIS and mapping system
5. Write a note on Agriculture management and its example
6. Application of the IT in remote sensing
7. Crop yield mapping with space and time variation
8. Explain shortest market location in selling the crop yield production

Part B

1. Explain about precision agricultural management .
2. Discuss about GIS information system for precision farming .
3. Explain about crop production modeling .
4. Elaborate Remote sensing techniques .
5. Discuss how remote sensing techniques applied in estimation of crop production .

Unit 2

Part A

1. Define artificial light system of greenhouse
2. What are the types of artificial lights?
3. Factors affecting the greenhouse effects
4. Note on Online measurement of plant growth in greenhouse
5. Carbon credit accounts made for an industry
6. Simulation of CO₂ consumption in greenhouse

Part B

1. Advantage and disadvantages of online measurement.
2. Explain management of crop growth in green houses.
3. Mode of plant production.

Unit 3

Part A

1. Project Scheduling.
2. Use of resources.
3. Simulation of a reservoir related to irrigation release.
4. Reliability of agricultural systems.
5. Managerial overview.
6. Linear programming.
7. Agricultural systems management.

PART B

1. Explain Artificial intelligent system and decision support systems.
2. Discuss in detail about Simulation of Crop growth and field operation tools.
3. Briefly explain about Agricultural systems.

Unit 4

Part A

1. Define Global climatic models.
2. Write a note on Weather predications model.
3. Define Forecasting methods.
4. Note on Climate factors affect evapotranspiration.
5. Explain General systems approach applying seasonal climate forecasting.
6. Define Predicting world's climate systems.

Part-B

1. Narrate the Importance of climate variability and seasonal forecasting.

2. Discuss about Global climatic models and their potential for seasonal climate forecasting.

Unit 5

Part A

1. Define Expert System.
2. E-Commerce and its applications
3. Adopt e- governance for current day irrigation business system.
4. E-business systems and its applications .
5. Define E- Learning.
6. Write a note on Information Society in social perspective of rural.
7. Knowledge based expert system.
8. Difference between e-business and e-commerce.
9. What is Agricultural and biological databases.
10. Define Rural development and Information society.

PART-B

1. Discuss in detail about Decision support systems.
2. Explain about e-commerce and its applications
3. Briefly explain about expert systems.
4. Discuss in detail about technology enhanced learning system and solutions.