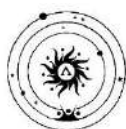


H.T.No: 

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Course Code: 241AE006



# ADITYA UNIVERSITY

B.Tech – I Semester End Examinations Supplementary – APR 2025

## AGRICULTURAL INFORMATICS (Agricultural Engineering)

Time: 3 hours

Max. Marks: 50

Answer ONE question from each unit

All Questions Carry Equal Marks

All parts of the questions must be answered at one place only

### UNIT-I

- |   |   |  |    |     |      |
|---|---|--|----|-----|------|
| 1 | a | Discuss the anatomy of a computer with the help of a diagram.              | L2 | CO1 | [5M] |
|   | b | What are the steps involved in creating and editing a document in MS-Word? | L2 | CO1 | [5M] |

(OR)

- |   |   |  |    |     |      |
|---|---|--|----|-----|------|
| 2 | a | Define memory in a computer and explain the different types of memory. | L2 | CO1 | [5M] |
|   | b | How can graphs be created and interpreted in MS-Excel?                 | L2 | CO1 | [5M] |

### UNIT-II

- |   |   |    |     |       |
|---|---|----|-----|-------|
| 3 | Explain the concept of a database and its types. How is a database used in agriculture? | L2 | CO2 | [10M] |
|---|---|----|-----|-------|

(OR)

- |   |   |   |    |     |      |
|---|---|---|----|-----|------|
| 4 | a | What is the importance of Agri-information systems in modern farming?                 | L2 | CO2 | [5M] |
|   | b | Discuss the role of statistical analysis and mathematical expressions in agriculture. | L2 | CO2 | [5M] |

### UNIT-III

- |   |  |    |     |       |
|---|--|----|-----|-------|
| 5 | Discuss the importance of HTML tags in web development. Provide examples of commonly used HTML tags. | L2 | CO3 | [10M] |
|---|--|----|-----|-------|

(OR)

- |   |   |   |    |     |      |
|---|---|---|----|-----|------|
| 6 | a | Compare and contrast the procedural and object-oriented programming paradigms.                    | L4 | CO3 | [5M] |
|   | b | Discuss the role of web servers, web browsers, and URLs in the functioning of the World Wide Web. | L2 | CO3 | [5M] |

### UNIT-IV

- |   |   |   |    |     |      |
|---|---|---|----|-----|------|
| 7 | a | Discuss the key concepts and applications of ICT in agriculture. How does ICT contribute to improved agricultural productivity? | L2 | CO4 | [5M] |
|   | b | How can Information and Communication Technology (ICT) be utilized to calculate the water and nutrient requirements of crops?   | L2 | CO4 | [5M] |

(OR)

- |   |   |   |    |     |      |
|---|---|---|----|-----|------|
| 8 | a | Discuss the use of smartphone apps in agriculture. How do they aid farmers? | L2 | CO4 | [5M] |
|---|---|---|----|-----|------|

(P.T.O)

- b Explain how DSSAT works in agricultural decision-making. How do they benefit farmers? L2 CO4 [5M]

**UNIT-V**

- 9 What is Geospatial Technology? Discuss the components of Geospatial Technology. How do they work together to support agricultural decision-making? L4 CO5 [10M]

**(OR)**

- 10 Explain the concept of a Contingent Crop Planning System. How can IT tools be used to prepare a crop plan in case of adverse weather conditions? L2 CO5 [10M]

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