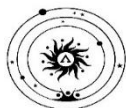


H.T.No:

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Course Code: 241AE006



ADITYA UNIVERSITY

B.Tech – I Semester End Examinations Supplementary – Mar 2026

AGRICULTURAL INFORMATICS (Agricultural Engineering)

Time: 3 hours

Max. Marks: 100

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 How do you use MS-EXCEL for data analysis and visualization in agriculture? Provide a brief example. L1 CO1 [10M]
b What are the different types of operating system licenses? Explain their implications for agricultural applications. L2 CO1 [10M]

(OR)

- 2 a What are the different types of application software. Explain the characteristics and application in agriculture. L3 CO1 [10M]
b Discuss types of memories and units of memory. L2 CO1 [10M]

UNIT-II

- 3 a How do you create a database using MS-ACCESS? Explain the process of preparing queries and reports. L3 CO2 [10M]
b What are Agri-Information systems? Discuss their importance and applications in agriculture. L3 CO2 [10M]

(OR)

- 4 a What are the advantages and disadvantages of using a relational database management system in agriculture? L2 CO2 [10M]
b Describe the concept of data mining and its applications in agricultural databases. L5 CO2 [10M]

UNIT-III

- 5 a How do you create a Web page using HTML? Provide a brief example. L3 CO3 [10M]
b What is the basic concept of programming language C? Explain its standard input/output operations. L1 CO3 [10M]

(OR)

- 6 a What are the different types of programming paradigms? Explain their characteristics and applications in agricultural programming. L2 CO3 [10M]
b Describe the concept of object-oriented programming and its applications in agricultural programming. L3 CO3 [10M]

UNIT-IV

- 7 a What are the IT applications for computation of water and nutrient requirement of crops? Provide examples. L3 CO4 [10M]
b How do smartphone Apps support agriculture? Discuss their importance and applications. L3 CO4 [10M]

(P.T.O)

(OR)

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|---|---|---|----|-----|-------|
| 8 | a | What are the different types of e-agriculture services? Explain their applications and benefits in agriculture. | L2 | CO4 | [10M] |
| | b | Describe the concept of precision agriculture and its applications in e-agriculture. | L5 | CO4 | [10M] |

UNIT-V

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|---|---|--|----|-----|-------|
| 9 | a | How do you use GIS for agricultural spatial analysis? Provide a brief example. | L3 | CO5 | [10M] |
| | b | What are the different types of agricultural expert systems? Explain their applications and benefits in agriculture. | L3 | CO5 | [10M] |

(OR)

- | | | | | | |
|----|---|---|----|-----|-------|
| 10 | a | What are the different types of geospatial data used in agriculture? Explain their applications and benefits. | L2 | CO5 | [10M] |
| | b | Describe the concept of GPS and its applications in agricultural navigation. | L5 | CO5 | [10M] |
