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ADITYA UNIVERSITY

B.Tech – I Semester End Examinations Regular – Dec 2024

INTRODUCTION TO AGRICULTURAL ENGINEERING

(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 Write about importance of agricultural engineering for today's agriculture. L1 CO1 [5M]
 b Summarize the different sectors of employment for agricultural engineers. L2 CO1 [5M]

(OR)

- 2 a Classify of farm machinery on the basis of unit operations. L2 CO1 [5M]
 b List the different types of primary tillage equipments and explain MB plough. L2 CO1 [5M]

UNIT-II

- 3 a List the plant protection equipments and give the functions of sprayer? L1 CO2 [5M]
 b Define weeding and list the weeding equipments? L1 CO2 [5M]

(OR)

- 4 a Define tractor and list the different components of tractor? L1 CO2 [5M]
 b Explain the air and fuel supply systems with neat sketch? L2 CO2 [5M]

UNIT-III

- 5 a Write the advantages and disadvantages of renewable energy sources? L1 CO3 [5M]
 b Explain about solar flat plate collector? L2 CO3 [5M]

(OR)

- 6 a Explain different agronomic measures for control of water erosion. L2 CO3 [5M]
 b Explain the concept of water harvesting structures. L2 CO3 [5M]

UNIT-IV

- 7 a Define weir, list the types of weirs and its applications? L1 CO4 [5M]
 b Explain about border and furrow irrigation? L2 CO4 [5M]

(OR)

- 8 a Explain about types of underground pipe systems? L2 CO4 [5M]
 b Mention the objectives of poultry houses? L1 CO4 [5M]

UNIT-V

- 9 a Difference between durables, perishables commodities? L2 CO5 [5M]
 b What is moisture content and explain its importance in grain storage. L2 CO5 [5M]

(OR)

- 10 a Define the following i) Cleaning, ii) Washing, iii) Sorting, iv) Grading, v) Peeling L1 CO5 [5M]
 b Explain different types of modern storage structures. L2 CO5 [5M]
