



# ADITYA UNIVERSITY

B.Tech – I Semester End Examinations Regular (B.Tech2024)

## 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 List the 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 equipments for tillage and explain MB plough with neat sketch. L2 CO1 [5M]

### UNIT-II

- 3 a List the plant protection equipments and give the functions of sprayer? L1 CO2 [5M]  
b Define harvesting and threshing and explain about pedal operated thresher with neat sketch. L2 CO2 [5M]

(OR)

- 4 a List the functions and capabilities of tractor? L1 CO2 [5M]  
b Explain the fuel and air supply systems with neat sketch? L2 CO2 [5M]

### UNIT-III

- 5 a Give the types of biogas plants and explain janata biogas plant with neat sketch? L2 CO3 [6M]  
b Explain solar photovoltaic system? L2 CO3 [4M]

(OR)

- 6 a Explain different agronomic measures for control of water erosion. L2 CO3 [7M]  
b List the different types of water harvesting structures. L2 CO3 [3M]

### UNIT-IV

- 7 a Explain about different types of weirs? L2 CO4 [6M]  
b Explain different surface irrigation methods L2 CO4 [4M]

(OR)

- 8 a Explain different types of agricultural structures L2 CO4 [5M]  
b Define greenhouse and explain different components? L2 CO4 [5M]

**UNIT-V**

- 9 a Classify of different types of agricultural commodities with examples L2 CO5 [6M]  
b Give the common reasons of food spoilage L2 CO5 [4M]

**(OR)**

- 10 a Explain different types of packaging materials and their suitability L2 CO5 [5M]  
b Explain different types of traditional storage structures. L2 CO5 [5M]

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MODEL QUESTION PAPER