



ADITYA UNIVERSITY

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

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 Summarize different sectors of employment for Agricultural Engineers. L2 CO1 [5M]
b Explain the different types of equipment for planting and transplanting. L2 CO1 [5M]

(OR)

- 2 a Briefly explain about the Importance of Agricultural Engineering for today's agriculture. L2 CO1 [5M]
b Explain different types of equipment for tillage operations. L2 CO1 [5M]

UNIT-II

- 3 a Explain about the paddy thresher with a neat sketch. L2 CO2 [5M]
b Explain the cooling and lubricating system of tractor with a neat sketch. L2 CO2 [5M]

(OR)

- 4 a List out the fertilizer application methods and also briefly explain about one of the method. L1 CO2 [5M]
b Explain about various parts of power tiller. L2 CO2 [5M]

UNIT-III

- 5 a Explain about floating dome type biogas plant with a neat sketch. L2 CO3 [5M]
b List out the solar energy collectors and briefly explain about the solar water heating system. L1 CO3 [5M]

(OR)

- 6 a Explain the different engineering measures to control erosion? L2 CO3 [5M]
b What is soil erosion? Explain the different water harvesting measurement methods. L1 CO3 [5M]

UNIT-IV

- 7 a Briefly explain about the types of grain storage structure. L2 CO4 [5M]
b Explain about the weirs. L1 CO4 [5M]

(OR)

- 8 a List the different surface irrigation methods and also explain the components of a Drip irrigation system. L1 CO4 [5M]
b Explain the centrifugal pump. L2 CO4 [5M]

(P.T.O)

UNIT-V

- 9 a Write the different types of food packaging materials. L2 CO5 [5M]
b Give the common reasons for food spoilage. L1 CO5 [5M]

(OR)

- 10 a What are the types of moisture content and also explain its importance in grain storage. L2 CO5 [5M]
b List the different food preservation methods and also explain the one method with example. L1 CO5 [5M]
