

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Regular & Supplementary Examinations December-2023
GREENHOUSE TECHNOLOGY
(Agricultural Engineering)

Time: 3 Hours**Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1 Define greenhouse and list the classification of greenhouse. L1 CO1 12M

OR

2 a Write about Shade nets. L2 CO1 6M

b Explain greenhouse based on covering materials. L2 CO1 6M

UNIT-II

3 a Write about the light requirement of horticulture crops in greenhouse. L1 CO2 6M

b Write about the shading methods of horticulture crops. L1 CO2 6M

OR

4 Explain types of active summer cooling systems with neat diagram. L2 CO2 12M

UNIT-III

5 Explain about the fiberglass reinforced plastic rigid-panel covering material. L2 CO3 12M

OR

6 a Explain about structural design of greenhouse with suitable diagram. L2 CO3 6M

b Write about site selection and orientation of greenhouse. L1 CO3 6M

UNIT-IV

7 a Explain about drip irrigation with neat diagram. L2 CO4 6M

b Explain about perimeter watering. L2 CO4 6M

OR

8 Discuss in detail the procedure of construction of pipe framed. L2 CO4 12M

UNIT-V

9 a Briefly explain about the hydroponic system. L2 CO5 6M

b Write about the nutrient film technique. L1 CO5 6M

OR

10 Write about the air supported row crops with neat sketch. L1 CO5 12M

***** END *****

