

Reg. No: 

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

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 Write about Plant response to greenhouse environments lite and temperature. CO1 L2 12M  
OR
- 2 a Explain greenhouse based on shape. CO1 L2 6M  
b Explain about polyethylene film greenhouses. CO1 L2 6M

**UNIT-II**

- 3 Explain the types of active winter cooling systems with neat diagram. CO2 L2 12M  
OR
- 4 a What is DIF and write the role of DIF in plant growth? CO2 L1 6M  
b Write about light requirements of crops and lighting control methods. CO2 L1 6M

**UNIT-III**

- 5 a Explain the factors and types of covering materials for greenhouse. CO3 L2 6M  
b Write the properties for selecting covering for an ideal greenhouse. CO3 L1 6M  
OR
- 6 a Briefly explain about wood and bamboo construction of polyhouses. CO3 L2 6M  
b Explain briefly about galvanized iron, aluminum steel and RCC of constructional material. CO3 L2 6M

**UNIT-IV**

- 7 a Explain the design criteria of construction of greenhouse. CO4 L2 6M  
b Write about the construction details of glass greenhouse. CO4 L1 6M  
OR
- 8 Discuss in detail the procedure of construction of pipe Framed greenhouse structure. CO4 L2 12M

**UNIT-V**

- 9 Briefly explain about the hydroponic system. CO5 L2 12M  
OR
- 10 a Write in detail about drying of agriculture produce. CO5 L1 6M  
b Write about slitted row crops with neat sketch. CO5 L1 6M

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