

**Reg. No:**

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech II Year I Semester Supplementary Examinations August-2022**

**GREENHOUSE TECHNOLOGY**

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Write short note on glass type of greenhouse. 6M  
b Write short note on ridge and furrow type of greenhouse. 6M

**OR**

- 2 a Write about the utility and covering material of greenhouse. 6M  
b Write advantages of greenhouse. 6M

**UNIT-II**

- 3 a What is DIF and write the role of DIF in plant growth? 6M  
b Write about the shading methods of horticulture crops. 6M

**OR**

- 4 a Write in detail on natural ventilation. 6M  
b Write about the light requirement of horticulture crops. 6M

**UNIT-III**

- 5 a Explain about structural design of greenhouse with suitable diagram. 6M  
b Write about the selection of covering materials for greenhouse. 6M

**OR**

- 6 a Explain about acrylic and polycarbonate rigid panel. 6M  
b Write about polyvinyl chloride rigid film. 6M

**UNIT-IV**

- 7 a Write about the construction details of glass greenhouse. 6M  
b Explain about the modes of heat loss. 6M

**OR**

- 8 a Enlist the procedure of erection of pipe framed greenhouse. 6M  
b Explain about overhead sprinklers. 6M

**UNIT-V**

- 9 a Enlist the types of row covers and explain about perforated plastic tunnels with sketch. 6M  
b Explain briefly the economic analysis of greenhouse production. 6M

**OR**

- 10 a Draw flowchart of capital requirements of production and explain. 6M  
b Write about the nutrient film technique. 6M

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