

Reg. No:

--	--	--	--	--	--	--	--	--	--

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

B.Tech IV Year I Semester Regular Examinations February-2022
GREENHOUSE TECHNOLOGY

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

PART-A

(Answer all the Questions 5 x 2 = 10 Marks)

- | | | | |
|---|--|----|----|
| 1 | a What is greenhouse effect? | L1 | 2M |
| | b What is greenhouse ventilation? | L1 | 2M |
| | c What is galvanizing process? | L1 | 2M |
| | d Write about hand watering system. | L1 | 2M |
| | e List the process of greenhouse utilization in off seasons. | L1 | 2M |

PART-B

(Answer all Five Units 5 x 10 = 50 Marks)

UNIT-I

- | | | | |
|---|--|----|----|
| 2 | a Write advantages of greenhouse. | L2 | 5M |
| | b Write about the effect of light on plant growth in greenhouse. | L2 | 5M |

OR

- | | | | |
|---|--|----|-----|
| 3 | Write about classification greenhouse based on covering materials. | L3 | 10M |
|---|--|----|-----|

UNIT-II

- | | | | |
|---|---|----|----|
| 4 | a Write about light requirements of crop grown in greenhouse. | L2 | 5M |
| | b Write the advantages and disadvantages of computers. | L2 | 5M |

OR

- | | | | |
|---|---|----|-----|
| 5 | Write about the natural ventilation system with neat diagram. | L3 | 10M |
|---|---|----|-----|

UNIT-III

- | | | | |
|---|--|----|----|
| 6 | a Write about site selection and orientation of greenhouse. | L2 | 5M |
| | b Write about the selection of covering materials of greenhouse. | L2 | 5M |

OR

- | | | | |
|---|---|----|-----|
| 7 | Explain about the wood, galvanized iron and glass construction materials. | L3 | 10M |
|---|---|----|-----|

UNIT-IV

- | | | | |
|---|---|----|-----|
| 8 | Write about the construction of pipe framed greenhouse with neat diagram. | L3 | 10M |
|---|---|----|-----|

OR

- | | | | |
|---|---|----|-----|
| 9 | Write about overhead sprinkler system with neat sketch. | L3 | 10M |
|---|---|----|-----|

UNIT-V

- | | | | |
|----|---|----|----|
| 10 | a Explain about hydroponic system. | L2 | 5M |
| | b Write the advantages and disadvantages of hydroponics system. | L2 | 5M |

OR

- | | | | |
|----|--|----|-----|
| 11 | Write in detail about curing of tobacco in greenhouse with suitable diagram. | L3 | 10M |
|----|--|----|-----|

END