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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech II Year I Semester Regular Examinations Feb-2021

GREENHOUSE TECHNOLOGY

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Write the brief history of greenhouse and greenhouse effect. 6M
b Explain about temperature, ventilation and carbon dioxide. 6M

OR

- 2 Explain greenhouses based on shape with neat sketches . 12M

UNIT-II

- 3 a Explain about the active summer cooling systems with neat diagram. 8M
b Briefly explain about the carbon dioxide enrichment methods. 4M

OR

- 4 a Write in detail about microprocessor with neat diagram. 6M
b Write the advantages and disadvantages of computers. 6M

UNIT-III

- 5 a Write about site selection and orientation of greenhouse. 6M
b Explain about structural design of greenhouse with suitable diagram 6M

OR

- 6 a Briefly explain about Tefzel T² film 5M
b Explain about acrylic and polycarbonate rigid panel. 7M

UNIT-IV

- 7 a Explain the need of heating in greenhouse 6M
b Explain about the modes of heat loss? 6M

OR

- 8 a Explain solar heating system with neat diagram 6M
b Enlist the procedure of erection of pipe framed greenhouse 6M

UNIT-V

- 9 Explain briefly about greenhouse utilization in off-season. 12M

OR

- 10 a Explain the capital requirements followed for protected agriculture. 6M
b Explain how the greenhouse economy be improved. 6M

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