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

B. Tech II Year I Semester Supplementary Examinations November-2022
GREENHOUSE TECHNOLOGY

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Explain Controlled environment agriculture & Open field agriculture. L1 6M
b Explain greenhouse based on shape. L1 6M

OR

- 2 a Explain about temperature, ventilation and carbon dioxide. L1 6M
b Write about the wavelength property used for crop growth. L2 6M

UNIT-II

- 3 Explain the types of active winter cooling systems with neat diagram. L1 12M

OR

- 4 a Write about the role of computers in greenhouse environment. L3 6M
b Write about the shading methods of horticulture crops. L3 6M

UNIT-III

- 5 a Briefly explain about tefzal T2 film. L1 6M
b Explain about acrylic and polycarbonate rigid panel. L1 6M

OR

- 6 a Explain briefly about galvanized iron, aluminum steel and RCC of constructional material. L1 6M
b Write about the design aspects of greenhouse. L3 6M

UNIT-IV

- 7 a Explain in detail about heating systems. L1 6M
b Discuss about different heat distribution systems commonly used. L2 6M

OR

- 8 a Write the rules of application of greenhouse. L2 6M
b Explain about the hand watering and boom watering. L1 6M

UNIT-V

- 9 Discuss briefly about utilization of greenhouse in off-season. L3 12M

OR

- 10 a Explain the capital requirements with flowchart for protected agriculture. L1 6M
b Explain how the greenhouse economy be improved. L1 6M

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