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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester Supplementary Examinations December-2021
GREENHOUSE TECHNOLOGY
(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Define greenhouse and list the classification of greenhouse. L1 6M
b Write the difference between CAE & OFA. L2 6M

OR

- 2 a Write about Shade nets? L2 6M
b Explain about photosynthesis reaction in light. L2 6M

UNIT-II

- 3 a Explain briefly about temperature requirements of horticulture crops? L3 6M
b Briefly explain about the carbon dioxide enrichment methods? L3 6M

OR

- 4 a Explain about forced ventilation. L3 6M
b Write about the role of computers and thermostats in greenhouse environment Control. L2 6M

UNIT-III

- 5 a Write about site selection and orientation of greenhouse. L2 6M
b Briefly explain about the materials used for construction of greenhouse. L3 6M

OR

- 6 a Briefly explain about tefzal T² film. L3 6M
b Write about the polyvinyl chloride film. L2 6M

UNIT-IV

- 7 a Explain the design criteria of construction of greenhouse. L3 6M
b Explain the need of heating in greenhouse L3 6M

OR

- 8 a Explain solar heating system with neat diagram. L3 6M
b Explain about drip irrigation. L3 6M

UNIT-V

- 9 a Write in detail about use of simplified protected agriculture techniques. L2 6M
b Write about silted row crops with neat sketch. L2 6M

OR

- 10 a Explain how the greenhouse economy be improved. L3 6M
b Explain about the hydroponic system. L3 6M

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