R16

Q.P. Code: 16AG717

Reg. No:

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

B.Tech IV Year I Semester Regular & Supplementary Examinations Feb-2021 GREENHOUSE TECHNOLOGY

(Agricultural Engineering)

		(Agricultural Eligineering)	
Time: 3 hours			Max. Marks: 60
		(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I	
1	a	Write the brief history of greenhouse and greenhouse effect.	6M
	b	Write advantages of greenhouse.	6M
		OR	
2	a	Explain about temperature, ventilation and carbon dioxide.	6M
	b	Write about the carbon dioxide requirement to the crop.	6M
		UNIT-II	
3	W	rite about the greenhouse supplemental lighting systems and its use.	12M
		OR	
4	a	Explain about the active summer cooling systems with neat diagram.	7M
	b	Briefly explain about the carbon dioxide enrichment methods.	5M
		UNIT-III	
5	a	Write about the selection of covering materials for greenhouse.	6M
		Briefly explain about the materials used for construction of greenhouse.	6M
		OR	
6	a	Write about the polyvinyl chloride film.	5M
	b	Write about polyvinyl chloride rigid film.	7M
		UNIT-IV	
7	a	Explain about drip irrigation.	6M
	b	Explain about overhead sprinklers.	6M
		OR	7.7
8	a	Explain the design criteria of construction of greenhouse.	6M
	b	Write about the construction details of glass greenhouse.	6M
		UNIT-V	
9	a	Write in detail about use of simplified protected agriculture techniques.	6M
	b	Enlist the types of row covers and explain about perforated plastic tunnels sketch.	with 6M
OR			
10		Explain the capital requirements followed for protected agriculture.	6M
		Explain how the greenhouse economy be improved.	6M