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Reg.	No.	

Question Paper Code: 99A07

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

Elective

Agricultural Engineering

19UAG907 - Design Of Greenhouse And Construction

(Regulation 2019)

Duration: Three hours Maximum: 100 Marks

Answer ALL Questions

		PART A - (10 X	I = 10 Marks		
1.	Which of the following green house based on construction?				
	(a) Even span type	(b) Po	olythene covered typ	e	
	(c) Glass covered gree	en house (d) W	ooden framed struct	ure	
2.	The most potent greenhouse gas in terms of efficiency is				
	(a) Nitrous oxide	(b) Carbon di oxide	(c) ChloroFluro (Carbon	(d) Methane
3.	What is the best temperature	erature for a greenhous	0C		CO2- U
	(a) about 80-85	(b) about70-75	(c) about 65-70	(d) a	about 60-65
4.	Actinometer is primar	rily used to measure	.andradiation.		CO2- U
	(a) infrared and ultrav	iolet (b) vis	sible and infrared		
	(c) visible and ultravio	olet (d) in	frared and UV-A		
5.	LST stands for				CO3- U
	(a) land surface temper	erature	(b) local stand	ard time	
	(c) local solar tempera	ature	(d) low surface	e temperat	ture
6.	Micro irrigation is oth	erwise is known as			CO3- U
	(a) tricle irrigation	(b) localized irrigation	(c) drip irrigati	ion (d) both a,b,c
7.	Irrigation frequency o	f drip irrigation varies	from		CO4- U
	(a) 1- 3days	(b) 1-5 days	(c) 1-7 days	(d) 1-10 d	lay

8.	Emis	ssion uniformi	ty of emitted varie	s upto			C	O4- U
	(a) 7	5%		(b) 80%	(c) 90%	(0	d) 100%	
9.	The	time from sun	rise to sun set term	ned as			C	O5- U
	(a) s	lope	(b) day length	(c) local	solar time	(d) so	olar intensi	ty
10.	In w	hich of the fol	lowing is direct fro	om of renewa	able energy		C	O5- U
	(a) s	olar energy	(b) tidal energy	(c) g	eothermal energy	(d)	bio energy	y
			PART –	-B (5 x 2= 10	OMarks)			
11.	Defi	ne Greenhous	e.				C	O1- U
12.	List out the greenhouse structural components.							O2- U
13.	Explain the distribution of solar radiation inside a greenhouse.							O3- U
14.	What are the types of irrigation system?						O4- U	
15.	6. What are the components of surface drainage system?						C	O5- U
			PART	$C - C (5 \times 16)$	= 80Marks)			
16.	(a)	Explain in d sketches.	etail about the typ	e of greenho	ouse and shape with	h neat	CO1- U	(16)
				Or				
	(b)	-	etail about the scop dvantages and disa	_	tance of greenhouse	e and	CO1- U	(16)
17.	(a)	-	detail about the s nd disadvantage.		of the greenhous	se. its	CO2 -U	(16)
				Or				
	(b)	•	details about the nd disadvantage.	greenhouse	covering material	s . its	CO2 -U	(16)
18.	(a)	Explain the	details about the in	side and outs	side greenhous radi	ation.	CO3- U	(16)
	(b)	Explain the	details about the th		is of greenhouse		CO3 -U	(16)
19.	(a)	Explain the	details about the ty	pes of irrigat	ion methods.		CO4- U	(16)

(b) Explain the details about the different types of filters
CO4 -U (16)
(a) Explain the details about the surface drainage systems.
(b) Explain the details about the subsurface drainage systems.
CO5- U (16)