A		Reg. No. :											
	Question Paper Code: 99A07												
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022													
Elective													
Agricultural Engineering													
19UAG907 - DESIGN AND CONSTRUCTION OF GREEN HOUSE													
(Regulations 2019)													
Dur	Duration: Three hours Maximum: 100							Mar	ks				
Answer ALL Questions													
PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$													
1.	Which green house classification based on covering material								CO	1 - U			
	(a) Lean to type (b) Glass glazing green house												
	(c) Active cooling green house (d) None of the above												
2.	Carbon di oxide gas percentage inside green house is								CO	1 - U			
	(a) 150%	(b) 65%		(c) 7	70%			(d) 80	%			
3.	Global and diffuse solar radiation can be measured by								CO	2- U			
	(a) pyranometer	(b) pyradiometer	r	(c)) pyr	geon	neter		(d) p	oyrhe	elion	neter	
4.	The time from sunshine to sunset is termed as							CO	2- U				
	(a) slope (b) day length (c) local solar time ((0	l) sol	lar ir	tens	ity			
5.	Angle made by plane surface with horizontal is called							CO	3- U				
	(a) slope	(b) azimuth angle	((c) al	titud	e ang	gle		(d)]	hour	ang	le	
6.	Suitable crop for drip	irrigation are										CO	3- U
	(a) sorghum (b	o) horizontal crops		(0	e) rov	w cro	ops		(d) oi	il cro	ps	
7.	Operating pressure of	drip system varies fro	om.		Kg/	cm^2						CO	4 - U
	(a) 1.25 to 1.5	(b) 1 to 1.5		(c)	1 to	1.25	j i	(d) 0	.5 to	1.5			
8.	In which of the follo zero	owing irrigation meth	nods	, the	dee	p pe	rcola	tion	loss	in		CO	4- U
	(a) drip irrigation (b) sub irrigation (c) sub surface irrigation (d) sprinkler irrigation							ion					

9.	The s		CO5- U								
	(a) di	rect radiation (b) diffu	(d) infrared rad) infrared radiation							
10.	In wł	ich of the following is c	(CO3 -U							
	(a) so	lar energy (b) tidal	energy	(d) bio energ	ду						
PART – B (5 x 2= 10Marks)											
11.	What are the Factor affecting the greenhouse? CO1- U										
12.	List out the greenhouse structural components.										
13.	Explain the zenith angle and visible horizon angle. CO3- U										
14.	Explain the advantage and disadvantage of micro irrigation systems. CO4- U										
15.	Explain the maintenance of surface drainage system.										
PART – C (5 x 16= 80Marks)											
16.	(a)	Explain in detail about neat sketches.	th CO1-U	(16)							
	(b)	se CO1-U	(16)								
17.	(a)	Explain in detail about Explain its advantage a	e. CO2 -U	(16)							
	(b)	Explain the details ab Explain its advantage	ls CO2-U	(16)							
18.	(a)	Explain the details al radiation.	se CO3-U	(16)							
	(b)	Explain the details about	Or ut the thermal ar	alvsis of greenhouse.	CO3- U	(16)					
	(-)					()					
19.	(a) Explain the details about the components of micro irrigation system.				on CO2-App	(16)					
	(b)	Explain the details abo Sprinkler Systems .	Or out the classification	ation and Components	of CO3-App	(16)					
20.	(a)	Explain the details about	s. CO3 -App	(16)							
	(b)	Explain the details about	he details about the subsurface drainage systems.								
			2		00 4 07	,					

99A07