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## Reg. No.:

## **Question Paper Code: 99A07**

### B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

#### Elective

#### Agricultural Engineering

# 19UAG907 - Design Of Greenhouse And Construction

(Regulation 2019)

Dura	ation: Three hours		Maximum: 100 Marks			
		Answer ALL	Questions			
	P.	ART A - (10 x 1	= 10 Marks)			
1.	Which of the following green	CO1- R				
	(a) Even span type	(b) Pol	(b) Polythene covered type			
	(c) Glass covered green house	e (d) Wo	(d) Wooden framed structure			
2.	The most potent greenhouse g	CO1- R				
	(a) Nitrous oxide (b) Ca	rbon di oxide	(c) ChloroFluro Carbo	on (d) Methane		
3.	What is the best temperature	CO2- R				
	(a) about 80-85 (b)	about70-75	(c) about 65-70	(d) about 60-65		
4.	Actinometer is primarily used to measureandradiation.					
	(a) infrared and ultraviolet	(b) visi	ble and infrared			
	(c) visible and ultraviolet					
5.	LST stands for			CO3- R		
	(a) land surface temperature		(b) local standard ti	me		
	(c) local solar temperature		(d) low surface temperature			
6.	Micro irrigation is otherwise	is known as		CO3- R		
	(a) tricle irrigation (b) local	lized irrigation	(c) drip irrigation	(d) both a,b,c		

CO4-R

Irrigation frequency of drip irrigation varies from

(b) 1-5 days

(c) 1-7 days

(d) 1-10 day

(a) 1- 3days

8.	Emission uniformity of emitted varies upto							O4- R
	(a) 75%			(b) 80%	(c) 90%	(0	d) 100%	
9.	The t	time from sun	rise to sun set tern	ned as			C	O5- R
	(a) sl	ope	(b) day length	(c) local	solar time	(d) so	olar intensi	ty
10.	In wl	nich of the foll	owing is direct fro	om of renew	able energy		C	O5 -R
	(a) solar energy (b) tidal energy (c) geothermal energy (d) b					bio energy	y	
			PART –	$-B (5 \times 2 = 1)$	10Marks)			
11.	Defi	ne Greenhouse	; <u>.</u>				C	O1- R
12.	List out the greenhouse structural components.							
13.	Explain the distribution of solar radiation inside a greenhouse.							
14.	What are the types of irrigation system?							O4- R
15.	Wha	t are the comp	onents of surface of	drainage sys	stem?		C	O5- R
			PART	$C - C (5 \times 10^{-3})$	6= 80Marks)			
16.	(a)	Explain in de sketches.	etail about the typ	e of greenh	nouse and shape wit	h neat	CO1- U	(16)
				Or				
	(b)	_	tail about the scop lvantages and disa	_	rtance of greenhous	e and	CO1- U	(16)
17.	(a)	-	letail about the s	site selection	on of the greenhou	se. its	CO2 -U	(16)
				Or				
	(b)	-	details about the d disadvantage.	greenhous	e covering material	s . its	CO2 -U	(16)
18.	(a)	Explain the d	etails about the in	side and ou	tside greenhous radi	ation.	CO3- U	(16)
	(b)	Explain the d	etails about the th		rsis of greenhouse		CO3 -U	(16)
19.	(a)	Explain the d	etails about the ty	pes of irriga	ntion 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.
(c) CO5-U (16)
(d) Explain the details about the subsurface drainage systems.