٨	
\mathbf{H}	

Reg. No. :											
------------	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: 91007

$B.E.\,/\,B.Tech.\,DEGREE\,EXAMINATION,\,MAY\,2024$

First Semester

Agriculture Engineering

		19UCY107 - CHEMIST	RY FOR AGRICUL	ΓURIST				
		(Regul	ation 2019)					
Dur	Duration: Three hours Maximum:							
		Answer A	ALL Questions					
		PART A - (1	$0 \times 1 = 10 \text{ Marks}$					
1.	The lowest energ	gy orbital is			CO1- U			
	(a) p-orbital	(b) d-orbital	(c) s-orbital	(d) f-orbital				
2.	The bond angle b	between the sp hybrid or	bitals is	_	CO1- U			
	(a) 90 °	(b) 180 $^{\circ}$	(c) 120 °	(d) 109 ° 29'				
3.	pH for drinking v	water is			CO1- U			
	(a) 1-2	(b) 3-4	(c) 7-8.5	(d) 10-12				
4.	The expansion of	f EDTA is			CO1- U			
	(a) Ethylene Dia	mine Tetra AceticAcid	(b) Ethylene Dii	(b) Ethylene Diiodo Tetra Acetylene				
	(c) Ethylene Dip	henyl Tri Acetic Acid	(d) None of The	(d) None of These				
5.	The process of d		CO1- U					
	(a) weathering	(b) tempering	(c) cementing	(d) annealing	2			
6.	The particle size	of clay is			CO1- U			
	(a) 0.001 mm	(b) 0.002 mm	(c) 0.02 mm	(d) 0.0001 m	ım			
7.	Proteins are				CO1- U			
	(a) monomer	(b) polymers	(c) dimer	(d) none of these				
8.	The blood protein hemoglobin is made up of polypeptide chain.							
	(a) 1	(b)2	(c) 3	(d) 4				
9.	Resin containing their	basic functional group	are capable of excha	anging	CO1- U			
	(a) anion (b) cation (c) both a & b (d) none of				se			

10.	Sea	water contains _	ppm of dissolv	ed solids		CC)1- U	
	(a) >	>1000	(b) < 1000	(c) >35000	(d) < 350	00		
			PART - B (5	x 2= 10 Marks)				
11. 12.	2. A water sample contains 204 mg of CaSO ₄ per litre .Calculate the hardness in							
13. 14. 15.	What is the function of proteins and lipids?							
16.	(a)	How does a che bonds in NaCl a		Explain the types of che	mical CO2-	App	(16)	
	(b)	•		n in methane, ethylene	and CO2-	App	(16)	
17.	(a)	Analyze the har	dness of well water b Or	y complexometric titration	on. CO3-	Ana	(16)	
	(b)	•		of cations and anions of cations and anions of colved with suitable diagra		Ana	(16)	
18.	(a)	•	ocks? Explain two	ypes of rocks? How soil processes involved in		App	(16)	
	(b)		Or sult from the sorpt the sorption of soil.	ion process in soil? Lis	st the CO4-	App	(16)	
19.	(a)	What are Lipids	? How are they class Or	ified based on the fatty a	cids? CO1-	U	(16)	
	(b)		unctions of enzyme mes using lock and k	es? Describe the bioche key method.	mical CO1-	U	(16)	
20.	(a)	•	water. So, how you	orroded due to the conting prevent that boiler by		Ana	(16)	
	(b)	•		ter from brackish water nciple and procedure invo	_	Ana	(16)	