		Reg. No. :											I
		Question Pap	er (Cod	e: 9	100	7						
	В.:	E. / B.Tech. DEGREE E	XAN	MIN.	ATIO	ON,	DEC	202	0				
		First S	eme	ster									
		Agriculture	Eng	inee	ring								
	19	OUCY107 - CHEMISTR	Y FO	OR A	AGR	ICU1	LTU	RIST	Γ				
Dur	ation: One hour	(Regulat	ion 2	2019)	ľ	Maxi	mun	n: 30	Mar	ks		
		PART A - (6	x 1 =	= 6 N	I ark	s)							
		(Answer any six of th	e fo	llow	ing (ques	tions	s)					
1.	The ability of an a known as	tom to attract the shared	elec	tron	pair	towa	ards i	itself	is			CO	1- R
	(a) Coordination	(b)Electro negativity	(0	e) Bo	ondir	ng			(d)	Elec	tron	Affiı	nity
2.	The type of hybrid	he type of hybridization is exhibited by C ₂ H ₂ is										CO	1- R
	(a) SP	(b) SP ²	(0	c) SF	3			(d)	Non	e of	the a	bove	•
3.	bond is account for many physical features of metals CC such as luster, conduction and strength.							CO	1- R				
	(a) Metallic	(b) Ionic	(0	c) Co	ovale	ent			(d)	Hydı	rogei	1	
4.	Hardness is expressed in terms of CaCO ₃ equivalent, because CO2								2- R				
	(a) It is highly inso	(b) Its molecular weight is 100											
	(c) Its equivalent weight is 50				(d) All the above								
5.	The reagent used i	n Calgon conditioning is	}									CO	2- R
	(a) $Na_2[Na_4(PO_3)_6]$ (b) $CaCO_3$ (c) $[NaAlO_2]$ (d) $NaAlO_3$							Mg(OH)	2			
6.	Which of the follo	wing salt is not responsi	ble f	or ha	ardne	ess o	f wat	ter?				CO	2- R
	(a) CaCO ₃	(b) MgCO ₃	(c)	Na(HCC) ₃)		(d)	Non	e of	the A	Abov	e
7.	The type of soil ha	il has the greater surface area is										CO	3- R

(c) Clay

(d) Red soil

(b) Sand

(a) Loam

8.	All the type of soil contains, organic matter, water and air.							
	(a) Minerals (b) Micro organisms (c) Radio	pactive elements (d) Oil and gases						
9.	Butter, vegetable oil, Cholesterol are examples for	CO4-	R					
	(a) Proteins (b) Food preservatives (c) Li	ipids (d) Carbohydrates	(d) Carbohydrates					
10.	Which one of the following vitamin is soluble in wat	er CO4-	CO4- R					
	(a) A (b) B (c) D	(d) K						
	$PART - B (3 \times 8 = 24)$	Marks)						
	(Answer any three of the following	owing questions)						
11.	Explain Valance Band Theory (VBT) in d Discuss its applications and limitations.	etail with examples. CO1-U ((8)					
12.	Write the principle of EDTA method. Describe the estimation of CO2- U hardness of water by EDTA method.							
13.	Write a note on mineral materials and organic soil.	matters present in the CO3- U (8)					
14.	Explain the need and role of food preservatives flavoring agents in food industry. Name few category.		(8)					
15.	Explain the carbonate, phosphate and Calgon to overcome the boiler troubles.	conditioning of water CO2- U (8)					