	Reg. No. :											
	Question Pape	er (Cod	e: 9	100	7						
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	19UCY107 - CHEMISTR	Y F()R A	GR	[CU]	TU	RIST	r				
	(Regulat	ion (2019)				L				
Dur	ation: 1:45 hour		-017	/	I	Maxi	mun	n: 50	Mai	rks		
	PART A - (10)	x 2 =	= 20	Mar	ks)							
	(Answer any ten of th	ne fo	llow	ing (ques	tions	5)					
1.	Define Hund's rule			0	1		,				CO	1- R
2.	How will you express the hardness in terms of	calc	ium c	carbo	nate	equiv	valen	ts			CO	2- R
3.	Give examples for cation and anion exchange	resin										
											CO	3- R
4.	Mention any two natural food preservatives.										<u> </u>	4 D
F	What is agriculture and its mathod?										CO	4- K 5 D
5.	Which of the following solt is not rear angible for bondness of water?										CO	ор ор
0. 7	The type of soil has the greater surface area			Irane	:55 0.	l wai	er?				CO	2-к 2 р
7. 8	All the type of soil contains											л-с 2 р
0. Q	Butter, vegetable oil. Cholesterol are evan	nlec	for	c1, w	ater	anu	an.				CO)- K ∕I_ R
). 10	Which one of the following vitamin is soluble in water										CO	4- N 4- R
11	Write the electronic configuration of Fe2+	ion	11								CO^2	Ann
12	Ice floats in water. Give reason.	10111								(202	Ann
13	Suggest a method to convert sea water into	drin	king	wat	er.					(201	App
14	List the major components of sodic soil		-6	,							CC)3 R
15	Write any two examples for proteins a industry.	ind	carbo	ohyd	rates	s us	ed in	n fo	od		CC)4 U

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

- 16. Explain Valance Band Theory (VBT) in detail with examples. Discuss its CO1- U (10) applications and limitations.
- 17. Write the principle of EDTA method. Describe the estimation of hardness CO2- U (10) of water by EDTA method.
- 18. Write a note on mineral materials and organic matters present in the soil. CO3- U (10)
- 19. Explain the need and role of food preservatives, colouring agents and CO4-U (10) flavoring agents in food industry. Name few examples for each category.
- 20. Explain the carbonate, phosphate and Calgon conditioning of water to CO2-U (10) overcome the boiler troubles.