Q	Q.P. Code: 20AG0701											R20			
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		SIDDH	AKII			IEO	FEN (AU	GINE TON(OMOI	G & I IS)	IECF	INU		IUK	
			B.Te	ch II	Year	I Sem	ieste	r Reg	ular E	Exam	inatio	ons	May-2022		
				PRI	NCIPI	LES C	F AG	RON	OMY	& SC	DIL S	CIE	NCE		
						(A	gricul	ltural I	Engine	eering))				
Т	ime	: 3 hours											Max	x. Mark	ks: 60
					(Ans	wer al	ll Five	Units	5 x 1	2 = 60	0 Mar	ks)			
1	a	List out the Problems in Sustainable Agriculture												L1	6M
	b	Ideological difference between Organic Agriculture and Conventional (Chemical) Agriculture.													6M
2		OR												τ1	
4	a h	w nat are the disadvantages of High External Input Agriculture?												6M	
	N	r we to is m		mg r		r uppr	reacto.	UNIT	Г-Ш						UIVI
3	a	Define Gr	avitat	ional '	Water,	Capil	lary V	Vater a	and Hy	grosc	opic v	vatei		L1	6M
	b	Draw a fl	owcha	art dep	oicting	differ	ent st	eps in	wate:	r mov	ement	t in 1	the soil-plant-	L4	6M
		atmosphe	re syst	em.				01	2						
4	a	State and explain any eight Agronomic (cultural) weed management practices											practices.	L3	8M
	b	Define the water requirement of crops and list out the factors that influence on Evapotranspiration.												L1	4M
								UNIT	'-III						
5	a	Categorize the soil structure and describe them with suitable diagrams.											ns.	L3	8M
	b	Snow the tabular form of textural Class names developed by U.S.Department of Agriculture.												LI	4M
		U						OI	R						
6	a	Describe 1	the fac	tors o	fSoil	Forma	tion.				~~~			L2	8M
	b	Define Particle density and Bulk density and write down its SI units.										L1	4M		
7	a	Define So	il Col	loids a	and exp	olain i	ts eigl	nt prop	perties	•				L3	8M
	b	Define Amorphous Clays and CEC.													4M
8	ล	Describe the problems of Soil Acidity													8M
U	b	Define Soil Organic Matter and explain Carbon sequestration in Soils.											LI	4M	
9	a	Solve the	Probl	em: A	Assume	e irrig	ation	water	has a	condu	uctivit	ty of	1.08 dSm-1.	L3	4M
		The field crop planted has a 50 percent yield reduction at soil saturation extract													
		water required to apply if the water needed to wet the profile is 6.35 cm (2.5													
	-	inches).			0										
	b	Niention the conditions for management and use of poor quality water. OR										er.	L2	8M	
10	a	List down the Boron and Copper deficiency symptoms.													4M
	D	Boron.												L2	8 IVI
							**	** EN	D ***						
							F	Page 1	. of 1					1	