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Code No: R161220		o: R161220	<b>R16</b>	(SET 1)	
<b>T</b> :		PRINCIPLE	egular/Supplementary Examinations, Ap ES OF SOIL SCIENCE AND AGRONO (Agricultural Engineering)	MY	1 70
11r	ne: 3	2. Answer	n Paper consists of two parts ( <b>Part-A</b> and <b>I</b> ALL the question in <b>Part-A</b> any <b>FOUR</b> Questions from <b>Part-B</b>	Max. Mar Part-B)	rks: 70
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1.	a)	Differentiate between A	active soil factors vs Passive soil factors.		(2M)
	b)	Classify the quality of in	rrigation water based on SAR.		(2M)
	c)	Write important propert	ties of alluvial and black soils.		(2M)
	d)	Write the characteristic	of good seed bed.		(2M)
	e)	Classify rocks based on	mode of formation.		(2M)
	f)	Mention agents of phys	ical weathering.		(2M)
	g)	Differentiate between Elu	viation and Illuviation.		(2M)
			<u>PART-B</u>		
2.	a)	Define soil profile. Desc	cribe the soil profile and its development.		(8M)
	b)	What are the different ste	eps involved in soil formation process?		(6M)
3.	a)	How do you classify roc	ks on the basis of origin? Explain any two.		(8M)
	b)	Write the importance of	soil profile study. Enlist different horizons in th	ne soil profile.	(6M)
4.	a)	Write important soil gr	oups of India and their characteristics.		(10M)
	b)	Write the practical util	lity of Agricultural meteorology.		(4M)
5.	a)	Define weed. How the w	veeds influence crop Production?		(6M)
	b)	Enlist different kinds of detail.	Soil erosion. Describe any two erosion preven	ting measures in	(8M)
6.	a)	Define Agro climatolo with neat graph.	ogy. Write the composition and structure	of atmosphere	(10M)
	b)	Explain briefly the role	e of weather on crop production.		(4M)
7.	a)	Write different steps evo	lved in solubilization of phosphorus and sulph	ır in soils.	(6M)
	b)	How do you reclaim sali	ne and alkali soils?		(8M)