## 22701

2	<b>222</b> :	3												
3	Ho	ours /	70	Marks	Seat	No.								
	Instructions – (1)			All Questions are Compulsory.										
			(2)	Illustrate your necessary.	answers	with	neat	t sk	tetc]	hes	wł	nere	ver	
			(3)	Figures to the	e right ind	icate	full	m	arks	S.				
			(4)	Assume suital	ole data, it	f nece	essa	ry.						
			(5)	Mobile Phone Communication Examination	on devices		•							
												]	Ma	rks
1.		Attemp	ot any	FIVE of the	following	•								10
	a)	Enlist o	differe	nt factor affect	ing soil st	ructu	re.							
	b)	Give th	ie stru	ectural classific	ation of so	oil.								
	c)	Enlist p	ohysica	al properties of	f soil.									
	d)	Define	hydro	logy.										
	e)	Enlist f	actor	affecting water	erosion.									
	f)	State a	ny thr	ee principles o	of erosion	contro	ol.							
	g)	Enlist o	differe	nt types of rai	n water ha	arvest	ing	tec	hnio	que	S.			
2.		Attemp	t any	THREE of t	he followi	ng:								12
	a)	Differen	ntiate	between variou	is water lo	osses	met	hoc	ls.					
	b)	Discuss measure		ous factors affe	cting runo	ff alc	ng	wit	h it	ts				
	c)	Explain	in de	etail hydrology	cycle with	h nea	ıt sk	cetc	h.					

d) What are different types of precipitation how it can be

differentiated from each other?

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		M	arks
3.		Attempt any THREE of the following:	12
	a)	Explain gully erosion along with its classification.	
	b)	Explain splash and stream bank erosion in detail.	
	c)	What are different causes of soil erosion? Enlist factor affecting soil erosion.	
	d)	Discuss in brief temporary and permanent gully control structures.	
4.		Attempt any THREE of the following:	12
	a)	Discuss different principles of soil erosion.	
	b)	Differentiate between contour bunding and graded bunding.	
	c)	Explain different field practices involved to control erosion by wind and water.	
	d)	Explain in brief strip cropping along with a suitable example of it.	
	e)	Explain function of ground water recharge.	
5.		Attempt any <u>TWO</u> of the following:	12
	a)	What are different classifications of terracing? Give function of each.	
	b)	Explain in detail different types of bench terraces.	
	c)	In detail explain design of grassed waterways.	
6.		Attempt any <u>TWO</u> of the following:	12
	a)	Discuss importance and application of water harvesting technology.	
	b)	Explain in detail any two techniques involved in ground water recharge.	
	c)	Enlist different rain water harvesting techniques. Explain any one in detail along with its application.	