## 22701

	242: 3 H		70	0 Marks	Seat	No.[					
<i>Instructions</i> – (1)				All Questions	are Comp	oulsory	ν.				
			(2)	Answer each r	next main	Ques	stion	on a	new	pag	e.
			(3)	Illustrate your necessary.	answer w	vith no	eat sk	etche	s wh	erev	⁄er
			(4)	Assume suitable	le data, it	f nece	ssary.				
			(5)	Use of Non-pr Calculator is p	•		ectroi	nic Po	ocket		
			(6)	Mobile Phone, Communication Examination H	n devices	-					
										I	Mark
1.		Attempt	any	FIVE of the	following	:					1(
	a)	Give the structural classification of soil.									
	b)	Define so	oil te	exture.							
	c)	List phys	ical	properties of so	oil.						
	d)	List four	mai	n components of	of the hy	drolog	ic cy	cle.			
	e)	Enlist an	y fo	ur causes of wa	ater erosi	on.					
	f)	List different principles of erosion control.									
	g)	List the	comp	ponents of a ch	ute spillv	vay.					
2.		Attempt	any	THREE of th	e followi	ng:					12
	a)	Differenti guage.	ate l	between recording	ng and no	n reco	ording	g type:	s of	rain	
	b)	Discuss measurem		ious factors a	ffecting	runo	ff alo	ong v	with	its	
	c)	Explain a	ıny 1	four problems of	of soil ero	osion.					

d) Differentiate between contour bunding and graded bunding.

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			Marks
3.		Attempt any THREE of the following:	12
	a)	Give the classification of water erosion and explain any one.	
	b)	Explain temporary and permanent gully control structures.	
	c)	Differentiate between Evaporation and Transpiration.	
	d)	Explain strip cropping with a suitable example.	
4.		Attempt any THREE of the following:	12
	a)	Explain in detail infiltration and interception.	
	b)	Explain splash and stream bank erosion in detail.	
	c)	Explain bunds. Explain graded bunds.	
	d)	Explain bench terracing along with its advantages.	
	e)	Explain farm pond in detail.	
5.		Attempt any <u>TWO</u> of the following:	12
	a)	Give detailed classification of terracing.	
	b)	Explain the term Contour Trenches with its benefits.	
	c)	Explain in detail any two techniques involved in ground water recharge.	
6.		Attempt any <u>TWO</u> of the following:	12
	a)	Explain the various components and working principle of drop inlet spillway.	
	b)	List different rain water harvesting techniques. Explain any one in detail with its uses.	
	c)	Explain design of grassed waterways in detail.	