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23124 3 Ho	l urs /	70	Marks	Seat	No.							
Instru	ctions –	(1)	All Questions	are Comp	ulsor	y.						
		(2)	Answer each	next main	Que	stior	on	a ne	ew	pag	e.	
		(3)	Illustrate your necessary.	r answers v	vith	neat	sket	ches	wł	iere	ver	
		(4)	Figures to the	e right indi	cate	full	marl	ks.				
		(5)	Assume suita	ble data, if	nece	essai	y.					
		(6)	Mobile Phone Communication Examination	none, Pager and any other Electronic cation devices are not permissible in on Hall.								
										Γ	Mar	ks
1. Attempt any <u>FIVE</u> of the following:										10		
a)	Enlist any four sources of irrigation water.											
b)	Define infiltration.											
c)	Explain	base	period of Cro	p.								

- d) Enumerate any four surface methods of irrigation.
- e) Define furrow irrigation.
- f) Write down any two benefits of Drip irrigation.
- g) Define fertigation.

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Attempt any THREE of the following:

- c) Write note on sprinkler irrigation highlighting its (a) adaptability(b) limitations (c) components.
- d) Enlist three types of filter in irrigation system and explain any one.

4. Attempt any <u>THREE</u> of the following:

- a) Differentiate check basin irrigation and furrow irrigation.
- b) Enlist and explain the components of Automation.
- c) Explain in details the non sequential automated irrigation system.
- d) Define drainage and explain its necessity.
- e) Differentiate surface drainage and subsurface drainage.
- 5. Attempt any TWO of the following:
 - a) A farmer has grown 0.8 ha of capsicum and 1 ha of cotton with irrigation requirement 8 cm and 12 cm respectively. 1700 lit/min of water diverted to irrigate both crops each day of 24 hrs. then compute the efficiency of an irrigation system of the farmer.
 - b) Explain the Border irrigation system with neat sketch.
 - c) Draw a neat sketch of drip irrigation system and explain in details.

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6. Attempt any <u>TWO</u> of the following:

- a) Write notes on fertigation system highlighting its.
 - i) Need
 - ii) Advantages
 - iii) Limitations
 - iv) Methods
- b) Enlist the types of special Drainage and explain the mole drains in details.
- c) Explain in details the process of reclamation of salt affected soils in details.