Total No. of Questions :10]

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			Roll No	
		CE	C-602	
		B.E. VI	Semester	
		Examination,	December 2012	
	W	ater Resource and	Irrigation Enginee	ering
		Time : T	hree Hours	
Ma	ixim	num Marks : 100	Minimum Pass	Marks :35
No	te :	Attempt only five of with each question	•	e is given
		2. Draw neat sketche	s where ever is required	•
1)	a)	What are the various ty	pes of Rain Gauges? E	xplain the
		working of any one in d	letail.	10
	b)	Explain the following:		10
		i) Depth area duration	curve.	
		ii) Run off estimation.		,
		(OR	
2)	a)	Explain the 'Hydrolog	ical Cycle' with the he	lp of neat
		sketch.		10
	b)	Explain the following:		10
		i) Synthetic unit Hydr	ograph	
		ii) Infiltration Indices.		
3)	a)	What are the various m	nethods of estimating th	e floods?
	-	Explain any one in deta	~	10
	b)	Define the term water		nation of
	,	waterlogged area is don		10

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OR
4) a) Write a detailed note on economics of flood control. 10

	b)	What is salt Efflorescence? What are the causes effects of salt Efflorescence?	and 10
5)	a)	Discuss the various data required for the plannin multipurpose reservoir.	g of 10
	b)	Describe the importance of Rain Water Harvestin detail.	
		OR	
6)	a)	Discuss the economic analysis of any water resorproject.	urce 10
	b)	Explain the role of water in environment.	10
7)	a)	Explain and derive relation between Duty, and Delta.	10
	b)	What are the various methods of surface irrigati	on?
		Explain any one in detail.	10
		OR	
8)	a)	Discuss the suitability of different types of soils foun-	
		India for agriculture purpose.	10
	b)	Explain the following:	10
		i) Crop rotation	
		ii) Suitability of water for Irrigation	
9)	a)	What are the functions of cross and Head regulators.	10
	b)	Describe yield test for well. OR	10
10`	(a)	What is canal lining? Discuss lining objectives in det	ail
	, ω)	What is called mining. Discuss mining objectives in det	10
	h)	Explain the following:	10
	υ,	i) Interference of wells	10
		ii) Well losses.	
		11) 11011 100000.	