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V Semester Diploma Examination, Nov./Dec. 2017

		WATE	RR	ESOURCE	ENGINEERING	ì
Time	e : 3	Hours			Max.	Marks : 100
Note					A. Each question carries 5 rt – B. Each question carries	
				PART - A		
1.	List	any five disadvan	tages o	of irrigation.		5
2.	Defir (a) (c) (e)	ne the following t Evaporation Run off Infiltration	erms : (h) (d)	Transpiration Catchment		5
3.	Thie A		record tabulat	ed at the various	chment area by the Thiess rain gauges stations and a	
		50	+	3.5	1	
		105		4.2	1	
		84		5.4	1	
		145		4.8		
		45		4.4]	
4.	Wha	t are the advantag	es and	disadvantages of	Drip Irrigation?	5
5.	Defi	ne :				5
	(a)	Duty	(b)	Delta		
	(c) (e)	Base period Crop Ratio	(d)	Gross Command	led Area	
6.	Wha	t are the factors to	be co	nsidered for selec	tion of site for a Reservoir?	5
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7.	What is Gravity Dam? Mention the various forces acting on a Gravity Dam.	. 5			
8.	Mention the difference between weir and barrage.				
9.	Define the following: (a) Porosity (b) Specific yield (c) Aquifuge (d) Permeability of soil (e) Aquifer	5			
	PART – B				
10.	Explain with a neat sketch, the rainfall measurement by Simon's rain gauge.	10			
11.	Explain the types of Precipitation.				
12.	Explain Drip Irrigation method with a neat sketch.	10			
13.	The gross commanded area for a distributary is 6000 hectares, 80% of whi culturable irrigable. The intensity of Irrigation for rabi season is 50% and the Kharif season is 25%. If the average duty at the head of the distributa 2000 hectares/cumec for rabi season and 900 hectares/cumec for Kharif season out the discharge required at the head of the distributary from average deconsideration.	at of ry is , find			
14.	Draw a neat diagram of typical cross section of Gravity Dam and mention the fa to be considered for the construction of Gravity Dam.	ctors 10			
15.	With a neat sketch, explain volute siphon spillway.				
16.	Explain different methods of canal lining.				
17.	With a neat sketch explain Syphon aqueduct.				
18.	Explain with a neat diagram, the components parts of a weir.	10			
19.	Explain the various methods of Artificial Recharge of ground water.	10			