Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-VI • EXAMINATION - SUMMER 2013

•		Date: 1//05/2013	
Sub	ject Na	nme: Hydrology and Watershed Management	
Tim	e: 10:3	30 am TO 01:00 pm Total Marks: 70)
Instr	uctions:		
		ttempt all questions.	
		ake suitable assumptions wherever necessary.	
		gures to the right indicate full marks.	
	4. Eı	nglish version is considered to be Authentic.	
Q.1	(a)	Discuss "Available Water resources in Gujarat state"	07
	(b)	With neat sketch explain the watershed.	07
Q.2			
	(a)	State characteristics of watershed	07
	(b)	Enlist types of soil erosion. Explain any one in detail.	07
		OR	
	(b)	Discuss need of soil conservation.	07
Q.3			
	(a)	Write short note on Bench Terracing.	07
	(b)	Describe design parameters for Bunds.	07
		OR	
Q.3	(a)	Enlist agronomical measures to control soil erosion. Explain any one.	07
	(b)	Explain grass waterways.	07
Q.4			
	(a)	Define water harvesting and describe importance of it.	07
	(b)	Explain components of rooftop water harvesting.	07
		OR	
Q. 4	(a)	Enlist traditional methods of water harvesting. Explain any one.	07
	(b)	Write short note on a watershed structure check dam.	07
Q.5			
	(a)	Explain gully plugging.	07
	(b)	Describe sub surface dykes.	07
	(-)	OR	-
Q.5	(a)	Discuss need of biomass management.	07
•	(b)	Discuss people's participation in watershed management.	07
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