## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER- IV(NEW) EXAMINATION – SUMMER 2015

Subject Code:2141309Date:08/06/Subject Name: Soil and water Conservation EngineeringTotal MarksTime: 10:30am-1.00pmTotal MarksInstructions:Total Marks			:08/06/2015	
			: 70	
<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>				
Q.1	(a)	Define Soil Erosion. Enlist & Explain different types of Soil Erosion.	07	
	(b)	Enlist the type of different soil Erosion control methods & Explain any one in detail.	07	
Q.2	(a)	Write a short note on check dam along with a neat sketch.	07	
	(b)		07	
		OR		
	(b) ,	Explain water Conservation.	07	
Q.3	<b>(a)</b>	Define the following terms:	07	
		1) Rainfall 2) Runoff 3) water harvesting 4) Aquifers 5) Infiltration		
		6) Reservoir 7) Evaporation		
	(b)		07	
		OR		
Q.3	(a)	Define Water loss. Explain the Different types of Water losses.	07	
	(b)	Discuss: pollution/ Contamination of water quality due to agricultural practices.	07	
Q.4	<b>(a)</b>	Explain Soil erosion due to wind and its control.	07	
	(b)	Explain Flood plain zone management.	07	
OR				
Q.4	(a)	Write a short note on reducing the impact of flooding.	07	
	<b>(b)</b>	What is soil conservation? Explain the scope of soil conservation in detail	07	
Q.5	<b>(a)</b>	Write down the 'universal soil loss equation' & explain it.	07	
	(b)	Write a short note on Grass land management.	07	
		OR		
Q.5	<b>(a)</b>	How can soil Erosion be controlled using biological method?	07	
	(b)	Write a short note on Soil Quality management.	07	

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