

Code No: RT42013D

R13

Set No. 1

${\bf IV~B. Tech~II~Semester~Supplementary~Examinations,~July/August~-~2017}$

WATER SHED MANAGEMENT

(Civil Engineering)

Time: 3 hours Max.			Marks: 70	
		Question paper consists of Part-A and Part-B		
		Answer ALL sub questions from Part-A		
		Answer any THREE questions from Part-B		

		PART-A (22 Marks)		
1.	Wri	ite short notes on the following		
	a)	Objectives of watershed management	[4]	
	b)	Geomorphologic Characteristics of watershed	[4]	
	c)	Brushwood dam, Gabion and gully control	[4]	
	d)	Farm ponds with neat sketch.	[4]	
	e)	Land grading operation.	[3]	
	f)	Application of watershed models.	[3]	
		PART-B (3x16 = 48 Marks)		
2.	a)	Briefly explain the concept and principles of watershed management system.	[8]	
	b)	Explain in detail about the integrated watershed management approach?	[8]	
3.		Explain in detail about the different characteristics of watersheds	[16]	
4.	a)	Briefly explain the classification of soil erosion.	[8]	
	b)	Discuss the factors affecting and its causes of soil erosion	[8]	
5.	a)	Distinguish between surface flow harvesting and subsurface flow harvesting.	[8]	
	b)	Write short note on percolation tanks.	[8]	
6.		Define Land use and Land capability? What are the different objectives of Land capability classification? Explain in detail about the classification of land capability?	[16]	
7.	a)	Write a note on history and evolution of watershed modeling. Mention different		
	1. \	models that are being developed.	[8]	
	b)	Write short notes on advances of watershed models.	[8]	