

B. Tech IV Year I Semester Examinations, November/December - 2016

WATERSHED MANAGEMENT
(Common to CE, CEE)

Time: 3 Hours	Max	k. Marks: 75	
Note: This question paper contains two parts A and B.		FIG.	****
Part A is compulsory which carries 25 marks. Ans Part B consists of 5 Units. Answer any one fur Each question carries 10 marks and may have a, b, c as s	all question fro		
PART- A	HG	(25 Marks)	
 1.a) Discuss the concept of Watershed Development. b) Describe Physiographic characteristics of a watershed. c) Explain the administrative requirements of a watershed. d)What is flood frequency analysis? Explain		[2] [3] [2] [3]	
f) Describe land fertility and land capability. g) Explain the need for soil moisture conservation.	AG	[3] [3] [2]	
h) Discuss the advantages of water harvesting. i) What is meant by saline and alkaline soils? j) Explain what is participatory watershed management?		[3] [2] [3]	4 - P 9 N P P P P P P P P P P P P P P P P P
PART-B	1 1111		3 \$ 7 TW
TAKI-D		(50 Marks)	
2.a) Write short notes on the following:i) Geomorphologic Characteristics of watershed			
b) Explain in detail watershed development stages OR		[5+5]	A 1
3.a) Discuss in detail Implementation of watershed managemb) Briefly explain about the criteria's involved in watershed	ent practices in l I development ac	ndia. ctivities? [5+5]	
4. What are the causes and effects of erosion? Explain the explain the different types of factors involved in this equal or the causes are the causes and effects of erosion? Explain the	universal soil lo ation.	oss equation. Also,	
5.a) What is a watershed action plan and Why should we deveb) Why does the plan need to be locally based? Who	elop a watershed should partici	plan? pate in watershed [5+5]	
mlonning'			
planning? 6. Define Land use and Land capability? How land capab different objectives of Land capability classification?	ility is classified		
6. Define Land use and Land capability? How land capab	ility is classified	I and what are the	
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	i) Brus b) Differe	hwood dam ii) entiate between g	thods to control Gabion iii) gu geologic erosion	lly control iv) and accelerated	erosion.	[5+5]	;
XXP X	rainwa	ter from rooftop	? Explain with si	ketch.		do you harvest	
			d by artificial re-	OR	• ,	[5+5]	
: ¥**** : * * * * * * * * * * * * * * * * *	b) Write a	note on farm po	Integrated Water	ond. Explain wi	itions in sustaina	[5+5] bility, productivity [10]	
**************************************	i) Mixe	short notes on the ed and strip cropps in detail the rol	_	agriculture.	nnagement,.::	[5+5]	
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						PE	
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