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## IV B.Tech I Semester Supplementary Examinations, February/March - 2018 WATERSHED MANAGEMENT

## (Agriculture Engineering)

Time: 3 hours

1

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)

a)	What is a watershed?	[2]
b)	Explain different methods of geometric representation of watersheds.	[4]
c)	What are the effects of erosion on land fertility and land capability.	[4]
d)	Give the difference b/w dam and check dam.	[3]
e)	List out the different objectives of Land capability classification.	[4]
f)	Write a short note on social forestry and afforestation.	[5]

## **PART–B** (3x16 = 48 Marks)

2.	a)	Explain the Necessity of Watershed Management in India. & list out the	
		Principles of Watershed Management.	[8]
	b)	Explain shape characteristics of Watershed with diagrams.	[8]
3.	a)	Illustrate the manual watershed delineation step by step.	[8]
	b)	Explain in detail Physiographic characteristics and Climatic characteristics of watershed.	[8]
4.	a)	List out the climatic factors that influence the Erosion.	[8]
	b)	Explain in detail various erosion control measures.	[8]
5.	a)	List out the advantages and disadvantages of RWH.	[6]
	b)	Explain Rainwater Harvesting with at least one successful case study.	[10]
6.	a)	Write a short note on Reclamation of saline and alkaline soils.	[8]
	b)	What do you understand by biological or vegetative measures in a watershed?	
	,	Describe two such important measures.	[8]
7.	a)	Discuss about the role of ecosystem and bio-mass management.	[8]
	b)	Explain in detail about reservoir routing.	[8]