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Code No: **RT41358**

IV B.Tech I Semester Supplementary Examinations, February - 2019 WATERSHED MANAGEMENT

(Agriculture Engineering)

Time: 3 hours

Engineering)

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.	a)	Explain the basic objectives of watershed management.	[4]
	b)	Explain Watershed delineation.	[3]
	c)	Explain the effect of erosion on land fertiliyty.	[4]
	d)	Define RWH. What are the benefits of RWH?	[4]
	e)	What is land use and land cover?	[4]
	f)	What is reservoir routing?	[3]
		PART-B $(3x16 = 48 Marks)$	
2.	a)	Explain in detail about the integrated watershed management approach.	[8]
	b)	Discuss watershed management as a part of sustainable development.	[8]
3.	a)	Discuss about different runoff measuring devices in watershed.	[8]
	b)	Classify the various watershed characteristics & its importance in watershed	[0]
	0)	management.	[8]
		CO.	
4.	a)	Explain Universal soil loss equation in detail.	[8]
	b)	Discuss in detail about Erosion control methods:	
		(i) Furrowing (ii) ploughing (iii) rock fill dams.	[8]
5.	a)	Write a short note on Check dams and Farm ponds.	[8]
	b)	Explain in detail the methods use for artificial recharge.	[8]
6.	a)	Explain reclamation procedure for alkaline and salt affected soils?	[8]
0.	a) b)	Discuss about the land capability classification.	[8]
	0)	Discuss about the faile capability classification.	[0]
7.	a)	What is strip cropping? Discuss different types of biomass management.	[8]
	b)	What is crop husbandry and sustainable agriculture? Explain them.	[8]

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