320850(20)

B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme)

(Civil Engg. Branch)

WATER SHED MANAGEMENT

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Part (a) is compulsory from each unit and solve any two out of (b), (c) and (d).

Unit-I

1. (a) Define Watershed Management.

	(b) What are the various necessary conditions for plant	t
	growth in watershed?	7
	(c) Explain watershed hydrology and describe various	
	problems related with it in watershed.	7
	(d) Describe in detail various characteristics of a water-	
	shed.	7
	'Unit-II	
2.	(a) Define land capability rating.	2
	(b) Explain the following terms:	7
	(i) Broad Beds	
	(ii) Contour Bund	
	(iii) Bench Terracing	
	(iv) Percolation Pond	
	(c) What are the various fundamental surveys required	
	for rationalizing land use in a watershed?	7
	(d) What do you mean by land capability classes in a	
	watershed?	7

Unit-III

3. (a) Define Mulching.	2
(b) What are various principles of water harvesting a conservation?	and 7
(c) Define following terms:	7
(i) Splash erosion	
(ii) Sheet erosion	
(iii) Rill erosion	
(iv) Tunnel erosion	
(d) What are the various soil conservation strategies	? 7
Unit-IV	
. (a) Define conservation farming.	2
(b) Explain in detail socio economic surveying.	7
(c) What are the various steps for watershed management	nt
planning?	7
(d) Explain the role of GIS in watershed managemen	t. 7

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Unit-V

5.	(a)	Define mass wasting.	2
	(b)	What do you mean by bad lands? How are they formed?	
		iorned?	7
	(c)	Explain various types of hill slope processes.	7
	(d)	What are the various types of hill slope failures?	7