

Model Question Paper-1/2 with effect from 2022-23 (CBCS Scheme)

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Fourth Semester B.E. Degree Examination Subject Title Watershed Management

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	Marks
Q.01	a	What is the function of a watershed?	L1	6
	b	Describe basic concepts of Hydrology and water availability	L2	7
	c	Explain Conjunctive use with respect to Watershed management	L1	7
OR				
Q.02	a	Explain importance of Surface water in watershed management	L1	6
	b	Explain importance of Groundwater in watershed management	L1	7
	c	Bring out the role of peoples participation in watershed management.	L2	7
Module-2				
Q. 03	a	Describe Integrated water resources system in detail	L2	8
	b	Explain the process of morphometric analysis for watershed management	L1	6
	c	Explain Short term and long term strategic planning in watershed management	L1	6
OR				
Q.04	a	Explain watershed management practices in arid and semi-arid regions.	L1	8
	b	Explain the importance's of River basins in India	L1	6
	c	Explain the process of watershed management through wells	L1	6
Module-3				
Q. 05	a	Define watershed development programme. Also Explain how integrated and multi disciplinary approach will help watershed management.	L2	8
	b	Explain in detail Physiographic characteristics and Climatic characteristics of watershed.	L1	6
	c	Write a short note on Reclamation of saline and alkaline soils.	L1	6
OR				
Q. 06	a	List out the advantages and disadvantages of RWH.	L1	6
	b	Explain Rainwater Harvesting with at least one successful case study.	L1	7
	c	Describe the role of check dam, farm ponds and percolation tanks in Rain Water Harvesting.	L2	7
Module-4				

Q. 07	a	What is meant by term erosion? Explain the causes of erosion.	L1	6
	b	Explain in detail inter, mixed and strip cropping.	L1	7
	c	What are the effects of erosion on land fertility and land capability.	L1	7
OR				
Q. 08	a	List out the climatic factors that influence the Erosion.	L1	6
	b	Explain in detail various erosion control measures.	L1	7
	c	Discuss in detail about contour techniques and rock fill dams erosion control methods.	L2	7
Module-5				
Q. 09	a	Explain Role of Decision support system in watershed management	L1	10
	b	Explain RS and GIS application for coastal aquifer management.	L1	10
OR				
Q. 10	a	Describe the uniqueness of coastal water resources	L2	10
	b	Explain watershed characteristics of coastal regions.	L2	10

*Bloom’s Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.