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EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY
An Autonomous Institution Affiliated to Visvesvaraya Technological University (VTU) Belagavi

USN | | | | | | | | | | |

24CV46C

Fourth Semester B.E. Degree Examination, May 2026
WATERSHED MANAGEMENT

TIME:3 hrs. Max.Marks:100

Note: 1. Answer **any FIVE** full questions, choosing **ONE** question from **each MODULE.**
2. M: Marks, L: Bloom's level,C: Course outcomes.
3. Assume missing data suitably.

		Module-1	M	L	C
Q.1	a	Enumerate the importance of hydrology in watershed management	10	L2	CO1
	b	Discuss the role of community participation in watershed management.	10	L2	CO1
		OR			
Q.2	a	Discuss distribution of surface and ground water availability on the earth.	10	L2	CO1
	b	Enumerate the concept and objectives of watershed management.	10	L1	CO1
		Module–2			
Q.3	a	Define Integrated Water Resource Management (IWRM). Discuss three principles of IWRM	10	L2	CO2
	b	Enumerate Short term and long-term strategic planning in watershed management.	10	L1	CO2
		OR			
Q.4	a	Discuss morphometric analysis of watershed.	10	L1	CO2
	b	Enumerate the concept of an integrated water resources system and discuss its need in water resources planning.	10	L2	CO2
		Module–3			
Q.5	a	Discuss different perspective on Recycle and Reuse of Water Resources.	10	L2	CO3
	b	Write a note on water conservation.	10	L1	CO3
		OR			
Q.6	a	Describe the advantages and disadvantages of Rainwater harvesting.	10	L2	CO3
	b	Discuss wastewater reclamation and its role in sustainable water management.	10	L2	CO3
		Module–4			
Q.7	a	Discuss soil erosion and its impact on watershed resources.	10	L2	CO4
	b	Discuss land capability classes along with their characteristics.	10	L2	CO4
		OR			
Q.8	a	Discuss the integration of crop production, livestock, and water conservation in watershed development.	10	L1	CO4
	b	Discuss various erosion control measures in detail.	10	L2	CO4
		Module–5			
Q.9	a	Elaborate the uniqueness of coastal water resources and discuss why they require special management.	10	L2	CO5
	b	Discuss the applications of Remote Sensing and GIS in watershed management	10	L2	CO5

		OR			
Q.10	**a**	Explain role of decision support system in Watershed management.	**10**	**L1**	**CO5**
	b	Discuss the role of Remote Sensing in monitoring watershed changes over time.	**10**	**L2**	**CO5**

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