PRN:		Course Code :	UCE 401

Second Year **B. Tech** End Semester Examination Winter 2024

Water Resource Engineering 000131

Day and Date: Fri 22 NOV 2024 Max Marks: **100**

Time : 02:00PM To 05:00PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain factors affecting infiltration	08	L2	CO1
	b)	Explain hydrologic cycle with neat sketch.	08	L2	CO1
		OR			
	b)	Outline the various method of measurement of evaporation	08	L2	CO1
Q.2		**Attempt the following**			
	a)	Discuss unit hydrograph theory with its assumptions and limitations.	08	L2	CO2
	b)	Outline various factors affecting runoff	08	L2	CO2
		OR			
	b)	Discuss various methods of separating base flow	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	Discuss the various systems of irrigation	08	L3	CO3
	b)	Outline methods of improvement of duty	08	L3	CO3
	c)	Briefly explain the relation of duty, delta and base period.	08	L3	CO3
Q.4		**Attempt any two from the following**		L3	
	a)	What are the various factors affecting selection of site for dam.	08	L3	CO3
	b)	Explain various types of earthen dam with sketches	08	L3	CO3
	c)	Elaborate various methods of controlling silting of reservoirs.	08	L3	CO3
Q.5		**Attempt any Two of the following**			
	a)	Explain forces acting on gravity dam.	09	L4	CO4
	b)	Explain types of spillway.	09	L4	CO4
	c)	Illustrate various instrumentation in dams.	09	L4	CO4
Q.6		**Attempt any Two of the following**		L4	
	a)	Discuss Bligh's creep theory & Khosla theory in detail.	09	L4	CO4
	b)	Compare Kennedy's and Lacey's silt theories.	09	L4	CO4
	c)	Compare weir with barrages	09	L4	CO4

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