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Internal Assessment Test 1 – Sept. 2019

Sub:	Hydrology and Irrigation Engineering			Sub Code:	15CV73	Branch:	CIVIL		
Date:	18/11/2019	Duration:	90 min's	Max Marks:	50	Sem / Sec:	A&B		
Answer any FIVE FULL Questions									
1	Define Irrigation. Explain the necessity of irrigation.							MARKS	OBE
								[10]	CO RBT
									CO1 L2
2	What is irrigation efficiency? Explain depth and frequency of irrigation with neat diagram.							[10]	CO1 L2
									CO1 L2
3	Write down relationship between Duty, delta and base period							[10]	CO1 L2
									CO1 L2
4	Write down the Kennedy's theory design procedure for case 1 and case 2							[10]	CO1 L2
									CO1 L2
5	For a distributor gross command area 50 hectares culturable command area is 80% of GCA. Intensity of irrigation is 30% for Rabi crop (Wheat) and 12% for Kharif (Rice). If the KOR period is 3 weeks initially and 2 weeks for the later farming, neglecting losses. Determine the outlet discharge. Assume watering for wheat as 9 cm and for rice as 25 cm.							[10]	CO1 L2
									CO1 L2
6	Compare sprinkler irrigation with drip irrigation system in details.							[10]	CO1 L2
									CO1 L2

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