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1:	
	Reg. No. :
,	Question Paper Code: 50347
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
	Sixth Semester
	Civil Engineering
	CE 8603 – IRRIGATION ENGINEERING
	(Regulations 2017)
Time:	: Three hours Maximum : 100 mark
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1. L	List any two demerits of irrigation.
2. V	What is the need for irrigation?
3. V	What do you mean by irrigation efficiency?
4. D	Define irrigation scheduling.
5. W	What are the forces acting on a dam?
6. D	Define barrages.
7. L	ist the different types of canal drop.
8. D	Define canal outlet.
9. W	What is meant by On Farm Development Works?
10. D	Define Water Users Association (WUA).
	PART B — $(5 \times 13 = 65 \text{ marks})$
11. (a	a) Describe in detail historical development and merits and demerits of irrigation.
	Or
(b	b) Discuss in detail about the various types of crops and its cropping seasons.

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51] :			
1	12.	(a)	Explain about the well and tank irrigations and its advantages.	
		(4)	Or	
		(b)	Describe the following	
		(0)	(i) Micro irrigation	(6)
			(ii) Surface and sub surface irrigation	(7)
	13.	(a)	Describe in detail about the difference between the earthern dar arch dam with a neat sketch.	m and
			Or	
		(b)	Discuss in detail about the diversion head works and its functions.	
	14.	(a)	Elaborate in detail about the canal regulator and its function wineat sketch.	th the
			Or	
		(b)	Discuss about the design of an unlined canal and its characteristics	
	15.	(a)	Explain in detail about the Participatory Irrigation Management (P	PIM).
			Or	
		(b)	Elaborate in detail about the difference between optimization of use and minimizing water losses.	
			PART C — (1 × 15 = 15 marks)	
	16.	(a)	Explain with the neat sketch about the different irrigation methods	a -
			Or	
		(b)	Discuss about the following:	
			(i) Derive the relationship between the duty, delta and base period	od. (8)
			(ii) Consumptive use of crops.	(7)
			PART B (5'2 ') 2 = 65 mit Nove 1	
			Describe in detail historical construction and marify and de-	
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