Reg. No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code   11528

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022
Sixth Semester
Civil Engineering
CE8603 - IRRIGATION ENGINEERING
(Regulations 2017)

Duration: 3 Hours   Max. Marks: 100

PART-A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	Define Irrigation? What are the merits and demerits of irrigation	2,K1,CO1
2.	Outline the factors affecting evapotranspiration?	2,K2,CO1
3.	Discuss the disadvantages of sub surface irrigation	2,K2,CO2
4.	What is alignment of canals?	2,K1,CO2
5.	What is on farm development?	2,K1,CO5
6.	List the forces acting on dams	2,K1,CO3
7.	Explain barrage	2,K2,CO3
8.	Identify the different types of canal lining?	2,K2,CO4
9.	What are the functions of a canal regulator?	2,K1,CO4
10.	What is conjunctive use of water?	2,K1,CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Explain the methods to measure the consumptive use of water.	13,K2,CO1
		OR	
	b)	What is meant by Duty? List the factors affecting duty. How to improve duty?	13,K2,CO1
12.	a)	What are the types of irrigation methods available? Explain about tank irrigation in detail.	13,K2,CO2
		OR	
	b)	(i)Define surface irrigation. Why it is widely practiced method of irrigation?	7,K2,CO2
		(ii) What are the advantages and disadvantages of the method?	6,K2,CO2
13.	a)	Explain in detail about the component parts of diversion works.	13,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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OR

b) Develop on the features of cross drainage works. 13,K3,CO3

14. a) Explain the various considerations for alignment of a canal. 13,K2,CO4

OR

b) List the types of canal lining and explain them in detail. 13,K2,CO4

15. a) Recall the following 5,K2,CO5
   i) On –Farm Development Works. 8,K2,CO5
   ii)Modern techniques to minimize water losses.

OR

b) Discuss the details about PPP and its impact on the water management. 13,K2,CO5

PART - C (1 × 15 = 15 Marks)

16. a) Explain in detail about sprinkler method of irrigation and how far it is suitable in Indian conditions. 15,K2,CO6

OR

b) Summarize on irrigation scheduling. 15,K2,CO6