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Reg. No. :					

**Question Paper Code: 35106** 

## B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

Fifth Semester

Civil Engineering

## 01UCE506 - IRRIGATION ENGINEERING

(Regulation 2013)

Duration: Three hours Maximum: 100 Marks

**Answer ALL Questions** 

PART A -  $(10 \times 2 = 20 \text{ Marks})$ 

- 1. What are the techniques of water distribution in the farms?
- 2. List out any four properties of soil.
- 3. Differentiate duty and delta.
- 4. What is crop period?
- 5. Define diversion headwork.
- 6. What are the forces acting on arch dam?
- 7. What is meant by canal escape?
- 8. List out the components of a diversion head works.
- 9. What are the works of on-farm developments?
- 10. Summarize the need for optimization of water use.

11.	(a)	(i) Explain the necessity of irrigation and discuss its merits and demerits.	(8)
		(ii) Write a note on national water policy.	(8)
		Or	
	(b)	Discuss about various types of irrigation methods generally adopted.	(16)
12.	(a)	Enlist the factors affecting duty. Describe the various methods of improving	g duty. (16)
		Or	
	(b)	Explain the direct methods to measure the consumptive use.	(16)
13.	(a)	Explain the selection of site for a dam and selection of type of dam.	(16)
		Or	
	(b)	Explain the component parts of a spillway.	(16)
14.		What is a cross drainage works? Explain any two cross drainage works with tches.	neat (16)
		Or	
	(b)	Explain the various type of alignment of canals.	(16)
15.	(a)	Explain on farm development works in irrigation water management.	(16)
		Or	
	(b)	Explain briefly about water user's association and its scope and possible fur irrigation water management.	(16)