

Time: 3 hours Max. Marks: 75			
111	ne: :	B hours Max. Marks: 75 Answer any FIVE Questions each Question from each unit	
		All Questions carry Equal Marks	
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1	a)	Explain the various methods of predicting the future population.	[8M]
	b)	Write a note on fluctuation in the rate of water consumption.	[7M]
		Or	
2		Discuss the various types of water demands and factors affecting water demand	[15M]
3	a)	Explain the main sources of water w.r.t quality and quantity.	[8M]
	b)	Discuss Infiltration galleries.	[7M]
		Or	
4	a)	What is an intake? Explain where and how it is used.	[8M]
	b)	Differentiate between shallow well and deep well w.r.t quality and quantity.	[7M]
5	a)	What is meant by turbidity? Explain how turbidity is measured and removed.	[8M]
	b)	Explain the method to find the presence of hardness in water. What is its significance in water?	[7M]
		Or	
6	a)	Discuss the water quality standards for agriculture and industries	[8M]
	b)	Discuss "IS :10500-2012".	[7M]
7	a)	Explain Nalgonda technique in deflouriodation of water.	[8M]
	b)	Explain the drawbacks in rapid sand filter.	[7M]
		Or	
8	a)	Discuss briefly sedimentation with coagulation.	[8M]
	b)	Explain the common methods of desalination of water.	[7M]
9	a)	Describe the various methods of water distribution.	[8M]
	b)	Under what conditions should water be supplied to distribution system by direct pumping.	[7M]
		Or	
10	a)	Explain the function of air valve in distribution system.	[8M]
	b)	What is hydraulically balance network. Explain in detail.	[7M]
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## II B. Tech II Semester Regular Examinations, August/September - 2021 ENVIRONMENTAL ENIGNEERING - I