O.P.Code: 20CE0125

**R20** 

H.T.No.

## SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

## B. Tech. III Year II Semester Regular & Supplementary Examinations June-2025

B.Tech. III Year II Semester Regular & Supplementary Examinations June-2025 ENVIRONMENTAL ENGINEERING					
(Civil Engineering) Time: 3 Hours			Max. Marks: 60		
(Answer all Five Units $5 \times 12 = 60$ Marks)					
		UNIT-I			
1	a	What are the necessity and importance of water supply system?	CO1	L1	<b>6M</b>
	b	Mention the various objectives of protected water supply system.	CO1	L2	6M
OR					
2		Briefly explain the various sources of water.	CO1	<b>L2</b>	12M
		UNIT-II			
3	a	Briefly explain any three chemical characteristics of water.	CO2	L2	6M
	b	Write short notes on different water borne diseases.	CO <sub>2</sub>	<b>L2</b>	6 <b>M</b>
		OR			
4		Explain the working principle of slow sand filter with the help of neat	CO <sub>2</sub>	L2	12M
		sketch.			
		UNIT-III			
5	a	What are the requirements of a distribution system?	CO3	L1	<b>6M</b>
	b	Write short notes on methods of distribution system.	CO3	L1	<b>6M</b>
		OR			
6		Briefly explain about the sewerage systems with their merits & demerits.	CO3	L2	12M
		UNIT-IV			
7		Briefly explain about the various characteristics of sewage.	CO4	<b>L2</b>	12M
		OR			
8		Explain with the help of neat sketch the construction and working	CO4	<b>L2</b>	12M
		process of a conventional trickling filter.			
		UNIT-V			
9		Explain the factors affecting the sludge digestion.	CO5	L2	12M
OR					
10		Discuss the criterion for design of a septic tank.	CO5	L2	12M

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