Code No:P18CET19 HALL TICKET NUMBER

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE (AUTONOMOUS)

IV B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH-2023 ENVIRONMENTAL ENGINEERING

(CE Branch)

Time: 3 hours Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer all the questions in Part-A (5X2=10M)

Q.No.		Questions	Marks	CO	KL
1.	a)	Define the term 'per capita demand'?	[2M]	1	1
	b)	How to select the suitable site for a reservoir?	[2M]	2	1
	c)	What are Pathogens?	[2M]	3	1
	d)	List the names of Coagulants?	[2M]	4	1
	e)	List the names of Pipe Appurtenances?	[2M]	5	1

<u>PART-B</u> Answer One Question from each UNIT (5X10=50M)

Q.N	o. Questions	Marks	СО	KL				
UNIT-I								
2.	Discuss the factors affecting the per capita demand?	[10M]	1	4				
OR								
3.	Summarize the importance and necessity of protected water supply systems?	[10M]	1	2				
UNIT-II								
4.	Explain about the flow pattern in an infiltration gallery with neat sketch?	[10M]	2	2				
OR								
5.	Briefly explain about the gravity and pressure conduits?	[10M]	2	2				
UNIT-III								
6.	Analyze the biological characteristics of water?	[10M]	3	4				
OR								
7.	Write about WHO guidelines for drinking water?	[10M]	3	1				
UNIT-IV								
8.	Explain about lime-soda process for removing Hardness from water?	[10M]	4	2				
OR								
9.	How to remove iron and manganese from water?	[10M]	4	1				
UNIT-V								
10.	Discuss the sluice valves, with neat sketch?	[10M]	5	2				
OR								
11.	Write short notes about laying and testing of pipe lines?	[10M]	5	2				
