

**END SEMESTER EXAMINATION(ESE), Nov. – 2022**

Course Name: **Environmental Engineering & Plant Utility**

Course Code: **201CHL305**

**Day and Date: Thursday, 15/12/2022**

Seat No:

**Time: 10 am to 12 pm**

**Max. Marks- 50**

BT	CO's	Q.No.		Marks
		<b>Q.1</b>	<b>All Questions are compulsory.</b>	<b>20</b>
1,2	CO1	a	Write short note on any two air pollution control technologies with neat diagram	Unit: 1,2,3 <b>7M</b>
1,2	CO2	b	Explain Primary & Secondary Waste Water Treatment Process with Flow sheet in detail	
1,2	CO3	c	Explain the sources & effects of Solid Waste	
		<b>Q.2</b>	<b>Attempt the following Questions</b>	<b>10</b>
1,2	CO4	a	What are the impurities in water?	Unit: 4 <b>4</b>
1,2	CO4	b	What do you mean by soft water & hard water & explain in detail two types of hardness of water? <b>OR</b> Write in short about priming, foaming & caustic embrittlement	
		<b>Q.3</b>	<b>Attempt the following Questions</b>	<b>10</b>
1,2	CO5	a	What is steam trap & give its types based on working principle	Unit: 5 <b>4</b>
1,2	CO5	b	Give the classification of Steam Generators & write list of mounting & accessories. <b>OR</b> What are the types of water tube boilers & write advantages of it?	
		<b>Q.4</b>	<b>Attempt any two out of three questions</b>	<b>10</b>
1,2	CO6	a	Explain how air and refrigeration can be used as an utility	Unit: 6 <b>5</b>
1,2	CO6	b	Mention the means by which air is collected from atmosphere & write short note on compressed air	
1,2	CO6	C	What is refrigeration, various refrigerant and its classification?	

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