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School of Advantage Continuous Assessment Semester Semest

Course Name & Code: Engineering Chemistry & CHY1701

Class Number: 2826, 2839, 2849, 2869, 3635, 3221, 3639, 4036 Slot: Al-TAL

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	Answer All the Questions (10 x 5 = 50 Marks). Answer All the Questions (10 x 5 = 50 Marks).	
S. No.	Answer All the Questions (10 x). How the dissolved oxygen in the water can be determined by volumetric	
X.	annivsis?	j
2.	Explain the candle filtration process for water treatment. However, the	
1	A 50 ml of hard water sample required 28 ml of EDTA solution. Solution of same water sample of 50 mL volume after boiling consumed only 5 ml of same water sample of 50 mL volume after boiling consumed only 5 ml of same water sample of 50 mL volume after boiling consumed only 5 ml of EDTA solution. In the case of a 50 ml of standard hard water (containing 15 g CaCO ₃ per litre) required 55 mL EDTA solution. Calculate the different types (CaCO ₃ per litre) required 55 mL EDTA solution. Calculate the different types (CaCO ₃ per litre) required 55 mL EDTA solution.	1
1	Explain the causes of priming and foaming and aiso state	1
J.	Give the reasons for the boiler corrosion and explain any two with appropriate	1
1	Explain the lime-soda process, with appropriate chemical reactions, for the softening of hard water.	1
of the same of the	Explain the permutit process for the softening of hard water, and also state the regeneration process, with necessary diagram.	1
3	Briefly describe both the ion-exchange and regeneration process involved with ion-exchange resin. Explain why the hard water has to be passed first through the cation resin column and then through anion resin column.	-
9.	Explain how the suspended impurities are removed from portable water and explain filtration in municipal water treatment processes.	1
y /	Explain the various methods of disinfection involved in the treatment of drinking water.	

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