

## SCHOOL OF ADVANCED SCIENCES B.Tech. - Winter Semester 2018-19

Continuous Assessment Test-I, January 2019

Course Code : CHY1701

Course name : Engineering Chemistry

Semester: Winter 2018-2019

Duration : 90 min.

Max. Marks : 50

Slot : G2+TG2

Engineering Chemical Completion of the Completion of the Inderstand the principle	e course d	utcomes (CC	for Module-1 &	& Module-2
inderstand the principle	and working o	lime-soda proces	ility to:	Code
pply the knowledge of oblems in engineering		processes and s	olving the	[A]

ar	Answer ALL the Questions  Outline the principle for the estimation of water hardness using EDTA unple contains 0.50 mg of CaCO near A standard hard water (SIN)	CO	Mark
cor bo pe	nsumed 15 mL of EDTA, and after boiling and filtering, 25 mL of this ermanent and temporary hardness of water.	[A]	10
	bissolved gases like oxygen and CO <sub>2</sub> in water are not good for boiler. Sive explanations for the statement and discuss the methods by which dissolve gases like oxygen and CO <sub>2</sub> can be removed from water. Discuss Winkler's method for the determination of DO in water.  Discuss in detail the demineralization of water by ion exchange process with their advantages and disadvantages.	[A]	10
(b)	of bleakpoint chlorination	[U]	10.
14.		[A]	5
5 (a)	treatment based filtration and month	[[U]	5
(b)	Discuss the desalinization of water by reverse osmosis method wit	[A]	5

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