No. of Printed Pages: 03 Roll No.

A-5

B. Tech. EXAMINATION, Dec. 2018

(First Semester)

(B. Scheme) (Main & Re-appear)

(Common with 2nd Sem.)

CH101B

ENGINEERING CHEMISTRY

Time: 3 Hours [Maximum Marks: 75]

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit and Q. No. 1 is compulsory. All questions carry equal marks.

(2-06/6) M-A-5 P.T.O.

1.	Explain the following terms: (a) Eutectic points and its characteristics (b) Polished or intrinsic water (c) Degree of polymerisation		5.	Write short notes on the following: (a) Pitting corrosion (b) Water-line corrosion (c) Stress corrosion. 3×5	
				Unit III	
	(d) (e)	Extreme pressure additi Fullerenes.	ves 3×5	6.	Write down the synthesis and applications of the following in the light of properties: 3×5
		Unit I			(a) PVC(b) SBR
2.	Give the various statements of second law of				(c) Thiokols.
		modynamics and show to the same goal.	that all of them 15	7.	Explain the term 'Reinforced Composite'. Discuss the advantages and applications of composites. 15
3.	State the phase rule. With the help of suitable				Unit IV
	examples explain the terms: 15				
	Phase, Component and Degree of freedom. Unit II			8.	Discuss the following terms and their significance:
				(a) Viscosity and Viscosity Index(b) Saponification Value	
4.	Exp	lain the term 'Hardness'	of water and its		(c) Acid value. 3×5
	dete metl	ermination with the help of hod.	of EDTA titration 15	9.	Write an explanatory note on 'Flame-photometry'. 15
M	A-5	2		(2-00	6/7) M-A-5 3 420