I B. Tech I Semester Supplementary Examinations, May/June - 2019 ENGINEERING CHEMISTRY

(Com. to CE,ME,PE,PChem E, Chem E, Aero E, Min E, Auto E, Metal E, BT)

Time: 3 hours Max. Marks: 70

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		Note: 1. Question paper consists of two parts (Part-A and Part-B) 2. Answering the question in Part-A is Compulsory 3. Answer any FOUR Questions from Part-B	
PART –A			
1.	a)	Give two examples of thermosetting and thermoplastics polymers.	(2M)
	b)	Write any three characteristics of rocket fuels.	(2M)
	c)	What is anodic coating?	(2M)
	d)	Define Meissner's effect.	(2M)
	e)	What is breakpoint chlorination?	(2M)
	f)	What is meant by oiliness of lubricant?	(2M)
	g)	What is tobermonite gel?	(2M)
		<u>PART –B</u>	
2.	a)	Explain the suspension and emulsion methods of polymerization.	(7M)
	b)	Discuss the preparation and uses of polyurethane and PVC.	(7M)
3.	a)	Discuss briefly the analysis of flue gases.	(7M)
	b)	Explain the method for preparation of catalytically cracked petroleum.	(7M)
4.	a)	Discuss the uses of electrochemical series.	(7M) (7M)
4.			
	b)	Explain how passivity, humidity, cathodic and anodic ratio and overvoltage effect the rate of corrosion.	(7M)
5.	a)	Explain the applications of CNT's and fullerenes.	(7M)
	b)	Discuss phase transfer method and super critical method of green synthesis.	(7) ()
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6.	a)	Explain (i) priming and foaming (ii) boiler corrosion.	(7M)
	b)	Discuss the internal treatment methods for softening of water.	(7M)
7.	a)	Explain briefly electrical insulators.	(7M)
	b)	Explain any two mechanisms of lubricants.	
			(7M)