



I B. Tech II Semester Supplementary Examinations, Nov/Dec - 2018 APPLIED CHEMISTRY

(Com. to CSE, IT, EIE, ECE, ECom E)

Time: 3 hours

Max. Marks: 70

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

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PART -A

1.	a)	What types of initiators are required in ionic and free radical addition polymerization?	(2M)
	b)	Why is catalytic cracking method better than thermal cracking?	(2M)
	c)	What are the disadvantages of dry cell?	(2M)
	d)	How are fullerenes important in medicinal field?	(2M)
	e)	Discuss the close packing of atoms in bcc.	(2M)
	f)	Explain the importance of biofuels.	(2M)
	g)	What are electrical insulators? Give examples of liquid insulators.	(2M)
		PART -B	
2.	a)	What is meant by polymerization? Explain the importance of biodegradable polymers.	(7M)
	b)	Explain the preparation and uses of BUNA-N and Thiokol.	(7M)
3.	a)	Explain any one process for preparation of synthetic petrol.	(7M)
	b)	What is knocking? Discuss petrol and diesel knocking.	(7M)
4.	a)	What are electrochemical cells? Explain the working of calomel electrode.	(7M)
	b)	Explain how design and purity of metal minimize the corrosion.	(7M)
5.	a)	Explain the various steps involved in sol-gel process.	(7M)
	b)	Discuss any ten principles of green chemistry.	(7M)
6.	a)	Explain Hall effect and its applications.	(7M)
	b)	Discuss stoichiometric and controlled valency semiconductors.	(7M)
7.	a)	Discuss wave and tidal power.	(7M)
	b)	Write notes on carbonate and phosphoric acid fuel cells.	(7M)

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