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R16 SET - 1 Code No: R161106

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

(Electrical and Electronics Engineering) Time: 3 hours M.			arks: 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	
<u>PART –A</u>			
1.	a)	Mention the uses of polycarbonates.	(2M)
	b)	Explain how water is removed during refining of petroleum.	(2M)
	c)	Define electroless plating.	(2M)
	d)	What is meant by lyotropic liquid crystals?	(2M)
	e)	Mention the % packing fractions of SCC, FCC and BCC.	(2M)
	f)	Explain the use of penstock and turbines in hydro power plant.	(2M)
	g)	What is meant by ABCABC packing in crystal?	(2M)
PART -B			
2.	a)	Explain compression and extrusion moulding with neat sketches.	(7M)
	b)	Explain the importance of biodegradable polymers. Mention their limitations.	(7M)
3.	a)	What is meant by synthetic petrol? Explain a method for preparation of synthetic petrol.	(7M)
	b)	Explain in brief (i) biodiesel (ii) power alcohol.	(7M)
4.	a)	Explain Li cells and Zn-air cells.	(7M)
	b)	Explain the various methods for surface preparation of metallic compounds to inhibit corrosion.	(7M)
5.	a)	Write short notes on TEM and BET methods used for characterizing of nanomaterials.	(7M)
	b)	Explain superconductors and its types.	(7M)
6.	a)	Explain Junction Transistor and P-N Junction diode as rectifier.	(7M)
	b)	Explain Hall effect and its applications.	(7M)
7.	a)	Discuss the tidal and wave power.	(7M)
	b)	Discuss ocean thermal energy conversion.	(7M)
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