I B. Tech II Semester Supplementary Examinations, November - 2021 APPLIED CHEMISTRY

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

(Com. to CSE, IT, EIE, ECE, E Com E) Time: 3 hours			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)	Give the applications of rigid polyvinyl chloride.	(2M)
	b)	What are antiknocking agents? Give examples.	(2M)
	c)	Discuss electroplating.	(2M)
	d)	What are Type II super conductors?	(2M)
	e)	What are non-elemental semiconducting materials?	(2M)
	f)	Write the disadvantages of hydrothermal power plant.	(2M)
	g)	How is biodiesel prepared?	(2M)
		<u>PART -B</u>	
2.	a)	Explain injection and extrusion moulding technique of plastics.	(7M)
	b)	Discuss the various additives added during compounding of rubber with examples.	(7M)
3.	a)	Explain refining process of petrol.	(7M)
	b)	Discuss CNG and LPG. Explain which fuel is morebetter.	(7M)
4.	a)	Explain the working of dry cell.	(7M)
	b)	Discuss (ii) sacrificial anodic protection (ii) differential aeration corrosion	(7M)
5.	a)	Explain how nanomaterials are characterization by BET method and TEM methods.	(7M)
	b)	Explain the principles of green chemistry.	(7M)
6.	a)	Explain the structures of rock salt.	(7M)
	b)	Discuss applications of electrical insulators.	(7M)
7.	a)	Explain the types of ocean thermal energy (OTEC).	(7M)
	b)	Discuss the working and advantages of H ₂ -O ₂ fuel cell.	(7M)