

Code No: R161106 (R16) (SET - 1

I B. Tech I Semester Supplementary Examinations, May - 2017 APPLIED CHEMISTRY

(Electrical and Electronics Engineering)

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**

PART -A

1.	a)	What is natural rubber?	(2M)		
	b)	What is octane rating?	(2M)		
	c)	Explain electroless plating.	(2M)		
	d)	What are carbon fullerenes?	(2M)		
	e)	Define super conductors and give two examples.	(2M)		
	f)	Define ferro magnetic material give examples.			
	g)	What is the importance of tidal energy?	(2M)		
		<u>PART –B</u>			
2.	a)	Explain suspension polymerization method.	(6M)		
	b)	Give preparation, properties and engineering applications of polyethene and	(8M)		
		Bakelite.			
3.	a)	Explain flue gas analysis by Orsat operates with neat sketch.	(8M)		
	b)	Explain petrol and diesel knocking.	(6M)		
4.	a)	Give brief note on differential aeration and waterline corrosion.	(8M)		
	b)	Explain galvanic cells.	(6M)		
5.		Explain solgel method of nano material with suitable example.	(8M)		
	b)	Explain R_4M_4 principles.	(6M)		
6.	a)	Define semiconductors explain their preparation.	(8M)		
	b)	What are insulators explain their electrical and electronic applications?	(6M)		
7.	a)	Explain thermal and photo conversion of solar energy.	(6M)		
•	b)	Describe closed and open cycle ocean thermal energy conversion.	(8M)		
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