

www.FirstRanker.com

www.FirstRanker.com

Code No: R161219			(SET - 1)	
I B. Tech II Semester Regular/Supplementary Examinations, April/May - 2018 ENGINEERING CHEMISTRY (Agricultural Engineering)				
Tir	Time: 3 hours Ma			
		 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)	Why is plasticized PVC better than rigid PVC?	(2M)	
	b)	Mention any three characteristics taken in consideration while selecting a good fuel.	(2M)	
	c)	What are irreversible cells? Give example.	(2M)	
	d)	What are nanomaterials and carbon nanotubes?	(2M)	
	e)	Why is LCV less than GCV?	(2M)	
	f)	What kind of ions causes alkalinity to water?	(2M)	
	g)	Define fire and pour point.	(2M)	
		PART -B		
2.	a)	Why should rubber be vulcanized? In addition to vulcanization, what additives are also added?	(7M)	
	b)	Explain the preparation and uses of polyethylene.	(7M)	
3.	a)	What are rocket fuels? How are they classified? Explain.	(7M)	
	b)	Explain diesel knocking and petrol knocking.	(7M)	
4.	a)	Discuss calomel electrode with a neat sketch.	(7M)	
	b)	Explain pitting and differential aeration corrosion.	(7M)	
5.	a)	What are liquid crystals? Discuss lyotropic liquid crystals with example.	(7M)	
	b)	Discuss the preparation and properties of fullerenes.	(7M)	
6.	a)	Discuss internal treatment of water.	(7M)	
	b)	Explain breakpoint chlorination.	(7M)	
7.	a)	Discuss the classification of refractories. Give examples.	(7M)	
	b)	Explain thermal insulators.	(7M)	

1 of 1