## Subject Code: R10204/R10

## Set No - 1

## I B. Tech II Semester Supplementary Examinations Dec - 2016 ENGINEERING CHEMISTRY-II (Common to All Branches)

(Common to All Branches) Time: 3 hours		x. Marks: 75
Answer any <b>FIVE</b> Questions <b>All</b> Questions carry equal marks ****		
1.	<ul><li>a) Illustrate with examples any two different techniques used in polymerisation.</li><li>b) Write the structures and two properties and two uses of i) PTFE ii) polystyrene</li></ul>	(8+7)
2.	<ul><li>a) Bring out the differences between thermoplastics and thermosetting plastics.</li><li>b) Explain injection moulding with a neat diagram.</li></ul>	(8+7)
3.	<ul><li>a) How is crepe rubber obtained from latex?</li><li>b) How are the following produced? Mention their properties and uses.</li><li>i) Buna-S ii) polyurethane.</li></ul>	(7+8)
4.	<ul><li>a) Explain briefly the applications of nano materials.</li><li>b) Discuss the preparation, properties and applications of fullerenes.</li></ul>	(7+8)
5.	<ul><li>a) Draw a flow diagram to show the various steps involved in the manufacture of cement by rotary kiln technology.</li><li>b) What are refractories? How they are classified? Give example of each type.</li></ul>	Portland (8+7)
6.	<ul><li>a) What is reforming of petrol? How does reforming increase octane number? Giv reforming reactions.</li><li>b) Explain briefly the properties of lubricants.</li></ul>	e any two (8+7)
7.	a) Write notes on enamels and special paints.	
	b) Explain hydrogen evolution type corrosion?	(8+7)
8.	<ul><li>a) Discuss about the need of green chemistry?</li><li>b) Explain any two methods for green synthesis.</li></ul>	(7+8)

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