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SECOND SEMESTER

Roll No. 940

B.Tech. (Group B)

May-2014

END SEMESTER EXAMINATION

AC-104 APPLIED CHEISTRY

Time: 3:00 Hours

Nax. Marks: 70

Lote: Q. NO. 1 is compulsory.

Attempt any FIVE questions from remaining.

Assume suitable missing data, if any.

- Draw schematic diagram of double beam UV-Visible spectrophotometer. Explain the term involved.
 - 4(a) Classify polymer on the basis of tacticity. Explain the mechanism of anionic polymerization with suitable example.

 6
 - (b) Write the characteristic IR Absorption Frequencies of the following Organic Functional Groups: O-H; N-H; NO₂; C=O for Aldehyde; C=O for ester; C≡N. 6

	Write any six principles of green chemistry. Explain any one in detail.	6
1	Write any six prints	place
1	Write any six principles Write any six prin	6
1	in Lead-Acid batteries.	
^	(a) Define peptide bond. Explain the structure of proteins in detail.	6
	What is triple point of water? Draw the phase diagram of water system and	
1		6
	explain.	
	(a) Draw the phase diagram of Lead-Silver System. Explain the areas, curves	lines
1	and points involved in the diagram.	6
	(b) What do you understand by Electroplating? Explain the reactions involve	ed by
		6
	taking a suitable example.	
	8. Write short note on any two of the following:	12
	(a) Use of Green Solvents	
	(b) Cellulose and their Derivatives	
	(c) Biodegradable Polymer	
	(d) Lithium-Ion Batteries	
	(4) 24 44 44 44 44 44 44 44 44 44 44 44 44	