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## B.E./ B.Tech.(Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011

(Electrical and Electronics Engineering Branch)

## SECOND SEMESTER

	CY 183 - CHEMISTRY II (REGULATIONS 2004)	
Tim	ne: 3 hours Max. Marks: 100	
	Instructions: 1	
	Answer ALL Questions	
	Part - A (10 X 2 = 20 Marks)	
	<ol> <li>What is a photosensitized reaction?</li> <li>State Grothus Dropper law</li> <li>What is meant by polymer alloy? Give an example.</li> <li>Define: Optical fibre</li> <li>Write note on soil corrosion</li> <li>Write note on corrosion inhibitors.</li> <li>Mention any two rechargeable cells.</li> <li>Distinguish between nuclear fission and nuclear fusion</li> <li>What is a Hoope's process?</li> <li>What is the principle of electro refining?         <ul> <li>Part-B (5 x 16 = 80)</li> </ul> </li> </ol>	
11	i)Write in detail about the mechanism of photochemical decomposition of HI and HBr ii) Write in detail about photochemical reactions	(8) (8 <del>)</del>
12	a) i) Write preparation, properties and uses of bakelite.	(8)
	ii) Write in detail about chemical structure and electronic behavior of conducting pol	ymer
		(8)
	(OR)	
	b) i) What is meant by vulcanization? Explain the process of vulcanization of rubber	(8)
	ii) What are the characteristics and advantages of optical fibre?	(8)

13 a) i) Give a detailed account on the vari	ous factors influencing electrochemical corros	sion (8)
ii) Explain the mechanism of chemica	al corrosion (OR)	(8)
b) i) What is a paint? What are the cons	tituents of paints? Discuss their functions?	(8)
ii) Write in detail about the stress corr	osion and pitting corrosion.	(8)
14 a) i) Explain the construction and work	king of lead acid storage cell.	(8)
ii) ) Explain the construction and wor	rking of dry cell.	(8)
	(OR)	
b) i) Describe the various components of	of a nuclear reactor and their functions	(8)
ii) Discuss the principle involved in s	solar cells	(8)
15) a) i)What is electro winning process? I	How aluminum is extracted using Hoop's proce	ess? (8)
ii) Write in detail about electrochemic	cal machining? What are its advantages?	(8)
	(OR)	
b) i) Explain the theory electron transfe	r in homogeneous systems.	(8)
ii) Write in detail about the electrolyt	ic refining of copper?	(8)

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