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# B. Pharm. Semester-III (C.B.S.) Examination

# PHARMACEUTICAL CHEMISTRY-III (Organic)

# Paper-2

Time : Three Hours]		[Full Marks: 80
N.I	:— (1) Question No. 1 is compulsory.	
	<ol><li>Solve any FOUR questions from the remaining.</li></ol>	
	<ol><li>Discuss the reaction, mechanism wherever necessary.</li></ol>	
1.	olve any FIVE of the following:	
	Explain Huckel's rule with suitable examples.	
	Aldehydes are much more reactive than ketone. Explain.	
	e) How will you determine unsaturation of given unknown organic compound.	
	SN <sup>1</sup> reaction accompanied by rearrangement, justify.	
	e) Compare basicity of amines.	
	Write a note on peroxide effect.	
	<li>State and explain any two reactions of carboxylic acids.</li>	5×4=20
2.	Discuss Aldol condensation with suitable examples.	5
	b) Explain in detail, reactions of Phenol.	10
3.	<ul> <li>Chlorination of isobutane yields 64% isobutyl chloride and 36% tert. butyl chloride</li> </ul>	oride. Explain. 5
	<ul> <li>Discuss in detail bimolecular nucleophilic aliphatic substitution reaction.</li> </ul>	10
4.	Vrite about methods of preparation of alkene. Give detailed account of E2 reaction co	vering mechanism,
	vidences, orientation and stereochemistry.	15
5.	Outline the laboratory synthesis of following from benzene (Any TWO):	
	(i) m-nitrobenzophenone.	
	(ii) m-bromophenol.	
	(iii) p-aminobenzoic acid.	
	(iv) p-iodonitrobenzene.	8
	<ul> <li>Enlist various electrophilic aromatic substitution reactions of benzene. Explain</li> </ul>	
	nitration reaction of benzene.	7
6.	How will you differentiate 1°, 2° and 3° amines?	5
	<ul> <li>Write a concise account on orientation and reactivity of aromatic compound</li> </ul>	s. 10
7.	Vrite notes on (any THREE):	
	Keto-enol tautomerism.	
	Grignard reagent and its significance.	
	e) Acidity of carboxylic acids.	
	Diazonium salt and its importance.	
	e) Hoffmann degradation reaction of amide.	15
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