## NTK/KW/15-7825

## Fourth Semester B. Tech. Examination

	ORGANIC PROCESS TECHNOLOGY		
Time: Three Hours ] [Max. Marks: 80			
]	<ul> <li>N. B.: (1) All questions carry marks as indicated.</li> <li>(2) Due credit will be given to neatness and adequate dimensions.</li> <li>(3) Diagrams and Chemical equations should be given wherever necessary.</li> <li>(4) Illustrate your answers wherever necessary with the help of neat sketches.</li> <li>(5) Discuss the reaction, mechanism wherever necessary.</li> </ul>		
1.	What is hydrolysis? Explain various types of hydrolysis reactions with suitable examples. 13  OR		
2.	Describe technical preparation of furfural from carbohydrates.		
3.	Discuss technical preparation of Tetraethy Lead. 13  OR		
4.	What is Alkylation? Explain different type of Alkylation reaction with suitable examples.		
5.	(a) Discuss Thermodynamics of Oxidation reaction.		

(b) Discuss Liquid phase and Vapour phase Oxidation

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reactions.

Contd.

## OR

6.		uss the manufacturing of Adipic and from other or the phexane using green route.	
7.	What is esterification? Elaborate esterification by giving suitable example.		
		OR	
8.		esterification process.  13	
9.	(a)	Discuss technical petroleum hydrogenation with examples.	
	(b)	Discuss the hydrogenation of coal in detail. 7	
		OR	
10.	Discu	ass production of Hydrogen from various sources.  14	
11.	(a)	Discuss various types of polymerization reaction	
	(b)	Write short note on polyacetylene.	
		OR	
12.	Write	short notes on :—	
	(a)	Polylactic acid.	
	(b)	Polyphenylenes. 7	