



Q3	A]	Write a note on crown ether along with its applications.	3
	B]	Attempt <b>any three</b> of the following.	
	a)	Explain <b>i.</b> Acidity of Phenol	4
		<b>ii.</b> Alkyl halides are prepared from alcohol but not phenol.	
	b)	Write a note on Wiliamson's synthesis.	4
	c)	Write a note on Fries Rearrangement.	4
	d)	Explain mechanism of halogenation of toluene with $FeCl_3$ .	4
	e)	Define ether. Classify it with suitable examples.	4
Q 4	A	Explain petroleum refining with diagram	3
	B	Answer <b>any three:</b>	
	a)	Explain coal tar refining	4
	b)	Explain catalytic reforming.	4
	c)	Explain block diagram and flow diagram	4
	d)	Explain unit process of nitration with mechanism.	4
	e)	Write a note on ozone depletion.	4

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