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CHEMISTRY, PAPER-II				
(xix)	The most commonly used absorbent for chromatog	raphic separation of organic	compour C	5
(ww)	(a) Activated charcoal (b) Fuller's Earth (c)) Alumina	(d) Silica ge	10
(XX)	(a) Organo Zinc halide(b)(c) n-Butyl Lithium(d)) Organo cadmium bromide) Organo Magnesium halide		CUME
<u>PART – II</u>				
NOTE:	 (i) PART-II is to be attempted on the separate (ii) Attempt ONLY FOUR questions from PAI (iii) Extra attempt of any question or any pa considered. 	Answer Book. RT-II. All questions carry l rt of the attempted question	EQUAL marks. ion will not be	SIT
Q.2. (a) (b) (c)	What is mesomerism? Give the conditions necess What is intramolecular and intermolecular hydrog Indicate the type of hybridization of carbon atom (i) Formaldehyde (ii) Dimethylether (ary for mesomerism. gen bonding? Illustrate with in the following: (iii) Hydrogen Cyanide	h examples. (iv) Acetylene	(10) (6) (4)
Q.3. (a) (b)	What is Diazotisation reaction? How will you pre (i) Phenol (ii) Chlorobenzene (Discuss the action of nitrous acid on secondary and	pare following via Diazotis (iii) Phenyl ethyl ether nd tertiary amines.	ation reaction? (iv) any dye	(14) (6)
Q.4. (a) (b)	How will you synthesize following? Give reaction (i) Acetaldehyde from Ethanol ((iii) Cyanohydrin from acetaldehyde (What is the difference between clemmensen and	n conditions and mechanisr (ii) Benzaldelyde from Be (iv) Salicyldehyde from Pl wolff-kishner reduction?	n. enzene nenol	(16)
05 (a)	Discuss the structure of Grignard Reagent			(4)
(b)	How these compounds can be prepared via Grign (i) 2-Butanol (ii) Ethane (ard Reagent? (iii) Acetic Acid	(iv) Ethyl thiol	(16)
Q.6. (a)	 Explain the difference between: (i) Homopolymer and Copolymer (ii) Addition Polymerization and Condensation (iii) Monosaccharide and Polysaccharide (iv) α-D-glucose and β-D-glucose 	Polymerization		(16)
(b)	(i) PVC (ii) Teflon (ii)	h of the following would be (iii) Nylon 6	(iv) PAN	(4)
Q.7. (a)	Hydrolysis of Ethylacetate by sodium hydroxide What will be the rate of this reaction? A second order reaction has equal concentrations	e is done by taking different of reactants and is 25% co	nt initial concentra	ation. (6) nutes.
(c)	How much time is required to complete the reacti Express the rate of reversible decomposition trichloride and chlorine in terms of reactants and	of Phosphorus pentachlor products.	ride into Phosph	(10) orous (4)
Q.8.	How would you prapre the following compounds (i) Acetophenone (ii) Bromobenzene (from benzene? Name each (iii) Maleic anhydride	reaction as well. (iv) Toluene	(20)

Benzaldehyde (v)
