

MARK:20 GRADE:12

TIME:1HR CHEMISTRY

	SECTION A	
1.	Which molecule shows optcal activity?	1
	a)2- chloro butane b)1- chloro butane	
	c)2,2 dichloro butane d)2,3 dichloro butane	
2	How many faraday is required to convert one mole of MnO4 ⁻ to Mn ²⁺ ? a) 2 F b)5 F c) 3 F d) 4 F	1
3	Which is the element formed at the cathode when aquous Na Cl is elecrolysed? a) H2 b)Na c)Cl2 d)O2	1
4	Which compound has more boiling point?	1
	a) 2 chloro butane b)1 chloro butane	
	c)1 bromo butane d)2 bromo 2 methyl popane	
5	Methyl chloride is more reactive than chlorobenzene. Which of the following	1
	statements is the wrong reason?	
	a)C—Cl bond is single in first case while in other it is partial double bond b)Hybridisation of methyl chloride is sp² which has more s character	
	c)Hybridisation of methyl chloride is sp ³ which has 25% s character.	
	d)instability of phenyl cation	
	SECTION B	
	Write the major and minor product formed when 2 bromo butane is treated with	2
))	alcoholic KOH and the rule behind it.	
7	Write the anodic and cathodic reactions in a lead accumulator.	2
}	Explain the reason why KCN and AgCN produce different products when treated with CH ₃ Br?	2
	SECTION C	

9	a) Why conductivity of CH $_3$ COOH decreases on dilution? b)Calculate Δ G 0 for the reaction 2 Fe $^{3+}$ +2I $^ \mathbb{Z}$ I $_2$ + 2 Fe $^{2+}$ E 0 =0.236 V .	1+2
	a)Write Wurtz Fitting reaction b)Write any 2 applications of Kohlraush's law.	
11	a)Although chlorine is –I group, it is ortho para directing. Why? b) Calculate 20_m of NH4OH if 20_m of NH4Cl= 131 S cm2 mol-1 20_m of Na OH = 91 S cm2 mol-1, 20_m of Na Cl= 154 S cm2 mol-1	1+2
