ie	ne:		Class: 12 <sup>th</sup>	Time: 60 minutes	Total Marks:	3
Chapter No.10			MJDexpert.com		Obtained marks	
Note:	Plazca attan	npt any 7 short ques	tions from Questia	n 2 Alco attemi	at both parts	
NUC		Question 3. Cutting			•	
			<b>ve-Section</b>		liy prombited.	
Q. 1 Enc	ircle the cor	rect answer.	(8x1=8)			
1. Which of t	he followings i	s not a nucleophile?				
(A) SO <sub>3</sub>	(	B) NH₃	(C) H <sub>3</sub> O	(D) C	ΣN	
2. Species de	ficient in elect	ron are called:				
(A) Electro	philes (	B) Bases	(C) Nucleop	hiles (D) C	Dxidizing agent	
3. When CO2	is made to rea	act with ethyl magnes	ium iodide followed	by acid hydrolysi	is the product	
formed is						
(A) Propan	e (	B) Propanoic acid	(C) Propana	I (D) P	ropanol	
4. Which of t	he following is	not a nucleophile?				
(A) H <sub>2</sub> S	(	B) H <sub>2</sub> O	(C) BF <sub>3</sub>	(D) N	1H3	
5. For which	step mechanis	m, the first step involv	ved is the same			
(A) E1 and	E2 (	B) E2 and SN-2	(C) SN-1 an	d E2 (D) E	1 and SN-1	
6. Which of t	he following is	not a nucleophile?				
(a) H₂O	(	b) H₂S	(c) BF <sub>3</sub>		(d) NH₃	
7. Reactivity	of Grignard's r	eagent is due to:				
(A) Haloge	n atom 🛛 🚺	B) Mg Atom	(C) Polarity of C-Mg	atom (D) A	Il of those	
8. Elimina	ation bimolecu	lar reactions involve:				
(a) first ord	der kinetics	(b) seco	ond order kinetics			
(c) third or	der kinetics	(d) zero order kinetics				
(c) third or	der kinetics	(d) zero	o order kinetics			

Q.	2 Write short answers	of any SEVEN (	(7) of the fol	lowing questions:	(7x2=14)						
1.	Write down the best method	od for the preparat	tion of alkyl ha	alides.							
2.	Define nucleophilic substit	ution reactions gi	ive its two type	es.							
3.	Convert Ethyl bromide int	o (i) <b>Eth</b> a	ane	(b)n-Butane							
4.	What is Grignard`s reage	nt? Give two exa	imples.								
5.	5. Show the mechanism for the reaction of acetone with Grignard's reagent.										
6.	6. What do you understand by the terin B-elimination reactions?										
7.	What is Wurtz synthesis?										
8.	8. How TEL can be produced from alkyl halides?										
Q.	No.3 Long Question:			(4+4=8	)						
	a) Define and explain. Substrate	(i)Nucleophile	(ii) Electroph	ile (iii) Leaving group	(iv)						

- b) What products are formed when the following compounds are treated with ethyl magnesium bromide, followed by hydrolysis in the presence of an acid?
- (i) CO<sub>2</sub> (ii) **CH<sub>3</sub>CHO** (iii) (CH<sub>3</sub>)<sub>2</sub>CO