	Subject: Chemistry	Class: 12 th	Time: 60 minutes	Total Marks:
Chapter No.13		MJDexpert.com		Obtained marks
Note: Please at	tempt any 7 short ques	tions from Questi	on 2. Also, attem	ot both parts
(a and b)	of Question 3. Cutting	and removal of an	y content is strict	ly prohibited.
	Obiecti	ve-Section		
Q. 1 Encircle the <i>c</i>	correct answer.	(8x1=8)		
1. The reagent used	to reduce a carboxylic g	group and alcohol i	S	
(A) H ₂ /Ni	(B) H ₂ /Pt	(C) NaBH ₄		(D) LiAlH ₄
2. Which of the follo	owing is not directly pre	pared from CH ₃ CO	OOH?	
(A) Acetyl Chloride	(B) Ethyl acetat	e (Ester)		
(C) Acetic anhydride	(D) Acetamide			
3. Which one is used	l in the manufacturing s	ynthetic fiber?		
(A) Formic acid	(B) Oxalic acid	(C) Carbonic acid	(D) A	cetic acid
4. One of the follow	ing organic compounds	reacts with Sodiun	n Bicarbonate to p	roduce CO2
gas:				
(A) CH₃COOH	(B) CH_3 -O- CH_3	(C) CH ₃ -CH ₂ -OH	(D) C	H₃COOCH₃
5. Which of the follo	owing is the weakest acid			
(A) Phenol	(B) Benzoic acid	(C) Ethyl alcohol	(D) V	Vater
6. Which test is app	lied to detect amino-acid	1?	(1)	
(a) Fehling's test solution test	(b) Ninhydrin test	(c) iodoform test	(d) 1	0 % NaOH
7. Carboxylic acid e	xists as a cyclic dimer in	solution with:		
(a) Water	(b) Alcohol	(c) Benzene	(d) A	All

Subjective-Section

Q.2	Write short answers of any SEVEN (7) of the following questions:	(7x2=14)
1.	Write structural formulas of: (i) Phthalic acid (ii) Malonic acid	
2.	Why lower carboxylic acids are very soluble in water?	
3.	Write manufacture of acetic acid from acetylene.	
4.	Write four uses of acetic acid?	
5.	Define amino acid, Explain Zwitter ion.	
6.	What is meant by essential and non-essential amino acids?	
7.	What is Stecker Synthesis? Give one example.	
8.	What is Ninhydrin test?	
Q.N	o.3 Long Question: (4+4=8)	
6	a) Write the mechanism reaction of acetic acid with SOCl ₂ .	
ł	b) Give equations to show the reactions of acetic acid with	
	(i) Na_2CO_3 (ii) $NaHCO_3$ (ii) PCl_5	