Q	.P.Code 104013 Reg. No.:	
F	First Year B.Sc Optometry Degree Supplementary Examinations - April 201	4
	CHEMISTRY	
Ti	me : 3 hrs Max marks : 8	3C
_	 Answer all questions Draw diagram wherever necessary 	•
	(2x15=3) What are buffer solutions. Derive the Henderson's equation for acidic and basic buffer	•
١.	systems.	
2.	What are electrophilic substitution reactions. Explain the mechanism with examples.	
Sł	nort notes (5x5=2	5)
3.	Differentiate between optical isomerism and geometrical isomerism.	•
4.	Explain what peroxide effect is.	
5.	What is epimerization. How will you convert glucose to its epimer.	
6.	Explain the role of vitamin A in night vision.	
7.	How does –I effect of chlorine effect the acid strength of halogenated propionic acids.	
Ar	nswer briefly (10x2=20	D)
8.	What are anomers and mention an example.	
9.	Name two steroid hormones and mention its biological role.	
10	. How does mesotartaric acid differ from racemic tartaric acid.	
11	.Structure of vitamin C	
12	2. What is meant by Walden inversion.	
13	B. What is meant by resonance.	
14	Explain the function of an emulsifier.	
15	. What is meant by the term sulpha drug.	
16	6. What is principle of TLC.	
17	. What are carbohydrates and how are they classified.	
Fil	II in the blanks (5x1=	5)
18	B. Deficiency of vitamin B_{12} causes the disease	
19	Tyndall effect is a/anproperty.	
20)is a natural polymer.	

22.....is a bivalent carbon intermediate which contains two non bonded electrons.

21. An equimolar mixture of the two enantiomers of a substance is......