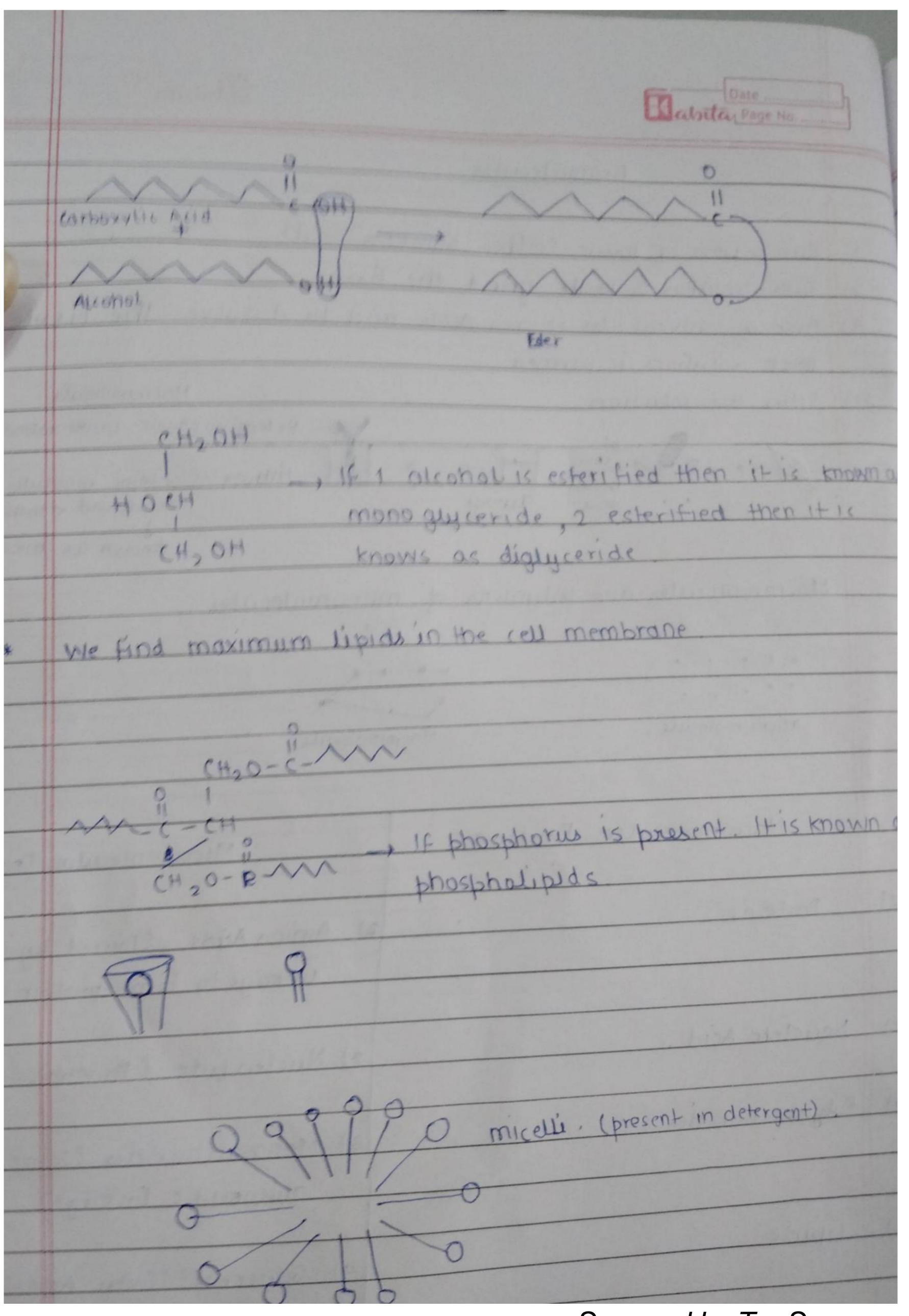
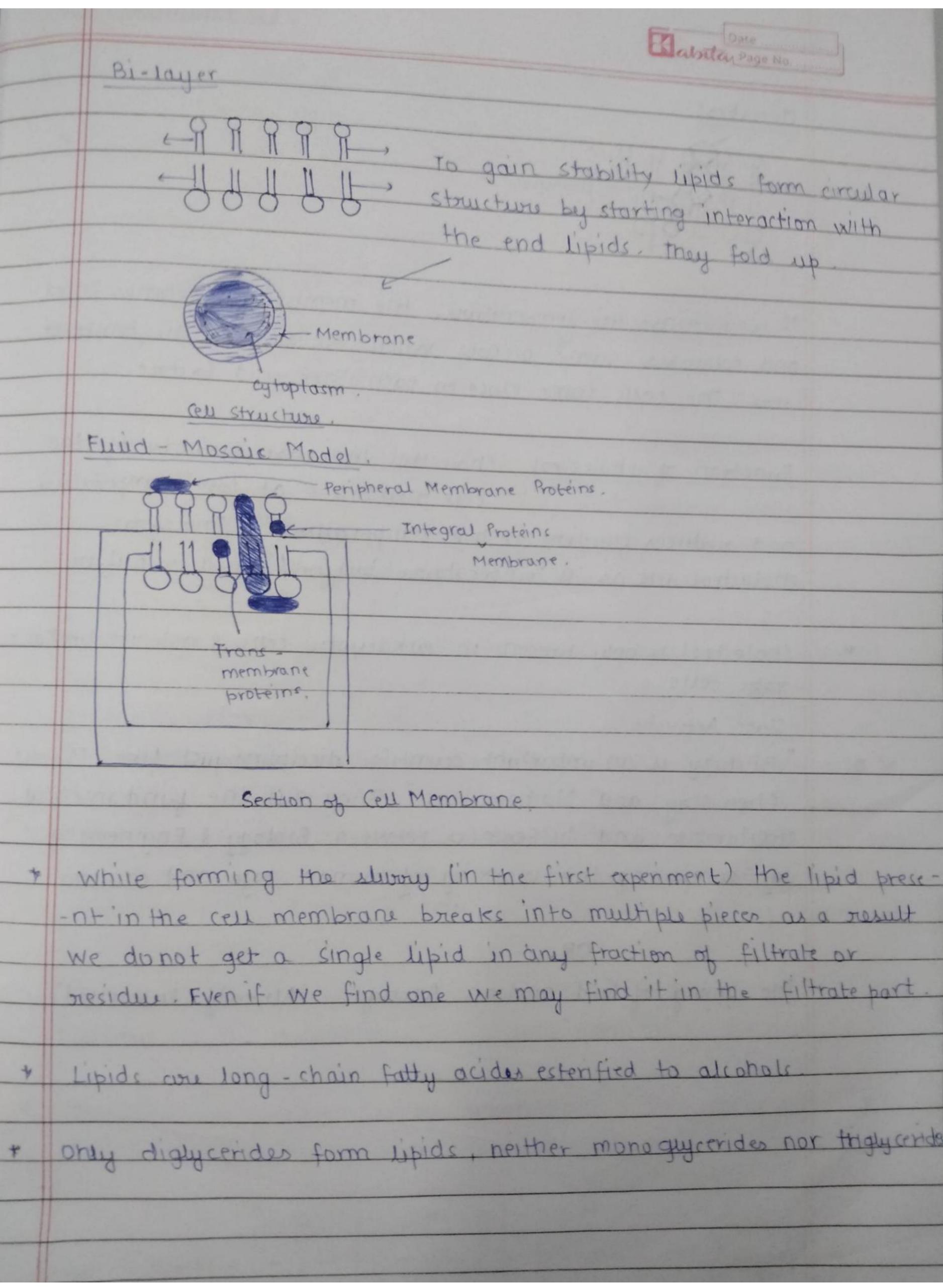
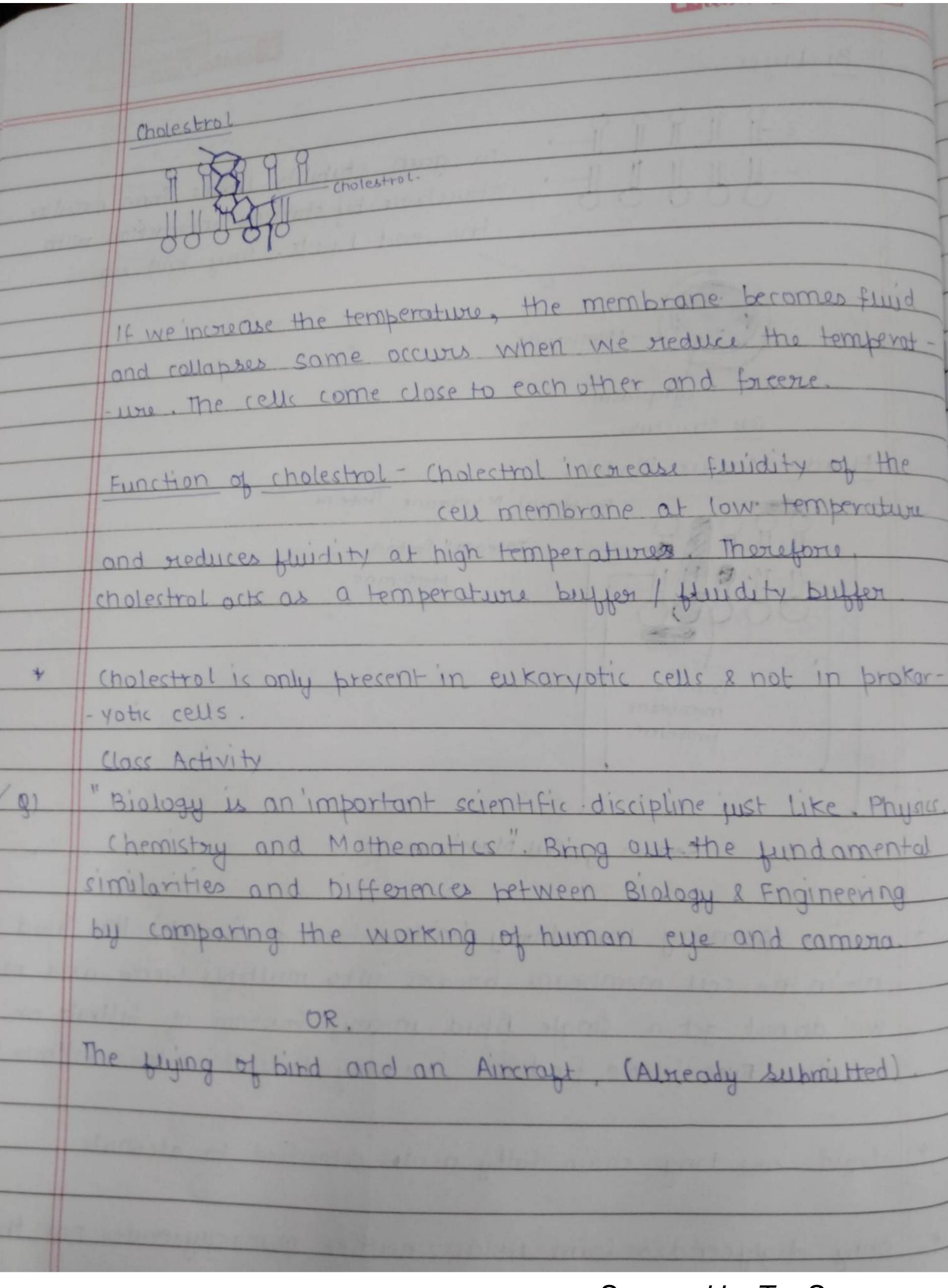
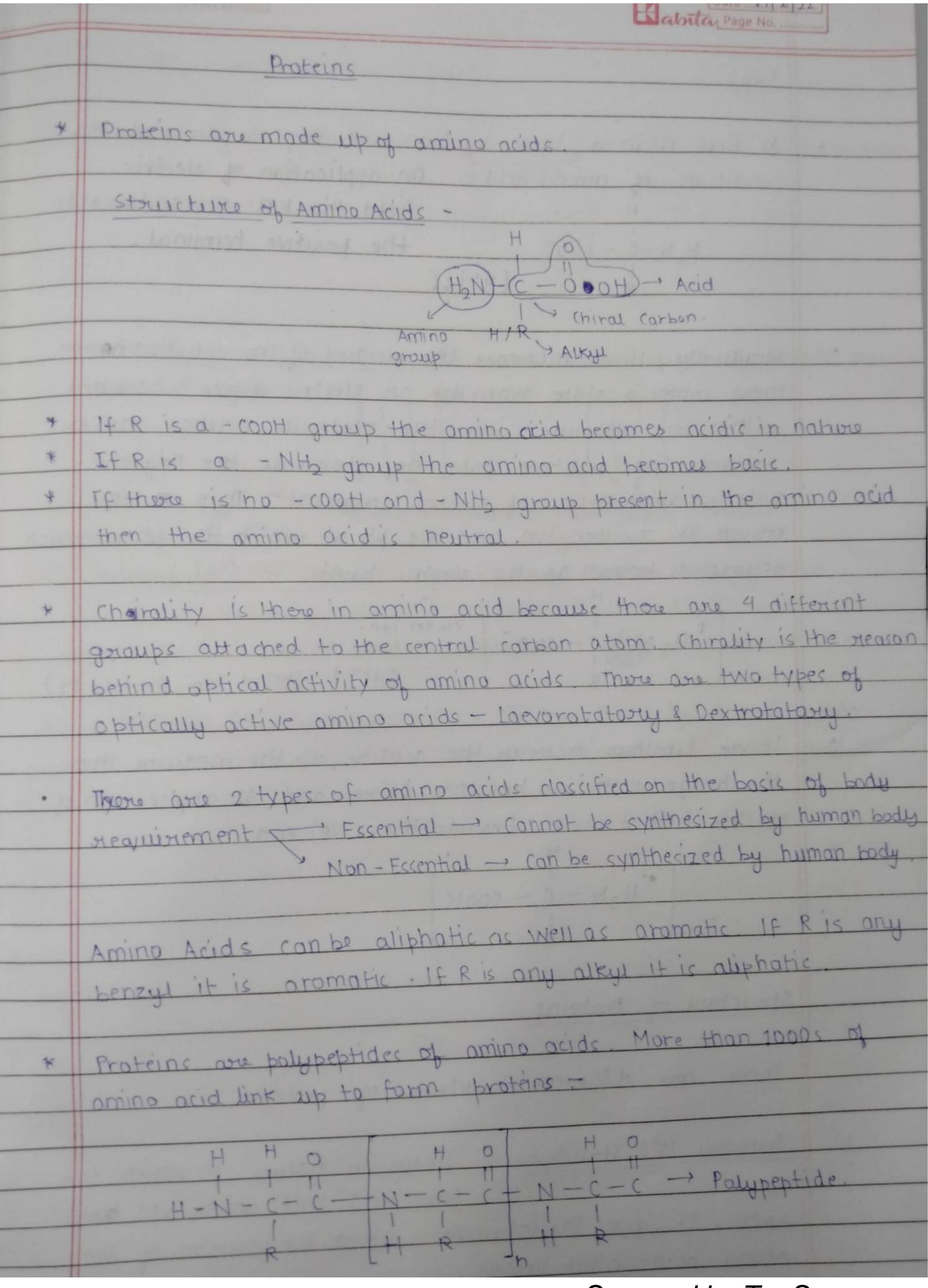
		Date	
	Biomolecules		
-			
1	Take a piece of tissue (either plant) animal).		
1	Therear & bestle aring the 1:		
	thick solution is formed	acid to dissolve the tissue A	
4	Filter the solution.		
-		Macromolecule. Retentive (9000 - 11000 daltons).	
100	chlore >		
	acid Sluvoy	Filtrate (contains molecules of Size around < 1000 daltons).	
	This is the same of the same o	known as micromolecules	
	Macromolecules are polymers of micromolecules.		
	4041	Birll muraixon boil well a	
	• • • • • • • • • • • • • • • • • • • •		
	Hicro-molecule. Macr	omolecule.	
		747-3-6-83	
	Macromoleculon Fraction	Micromolecular Fractions	
1)	Daldin		
4-/	Proteins	12) Amino Acids (Joined by peptide	
		linkage to form protein)	
2)	Neuclett Acid.	2) Nucleotide (Phospho-di-ester)	
3)	Polysaccharides.	2) Managagh 1 (+)	
	- Contract of the contract of	3) Monosaccharides (Joined by	
		glycasydic linkage).	
4)	lipids	4) Glycerol (Falty Acids).	
	Lipids - · Size in the order of 700 - 800 dattons		
	Lipids are not true piomolecules because they are not		
	polymers,		



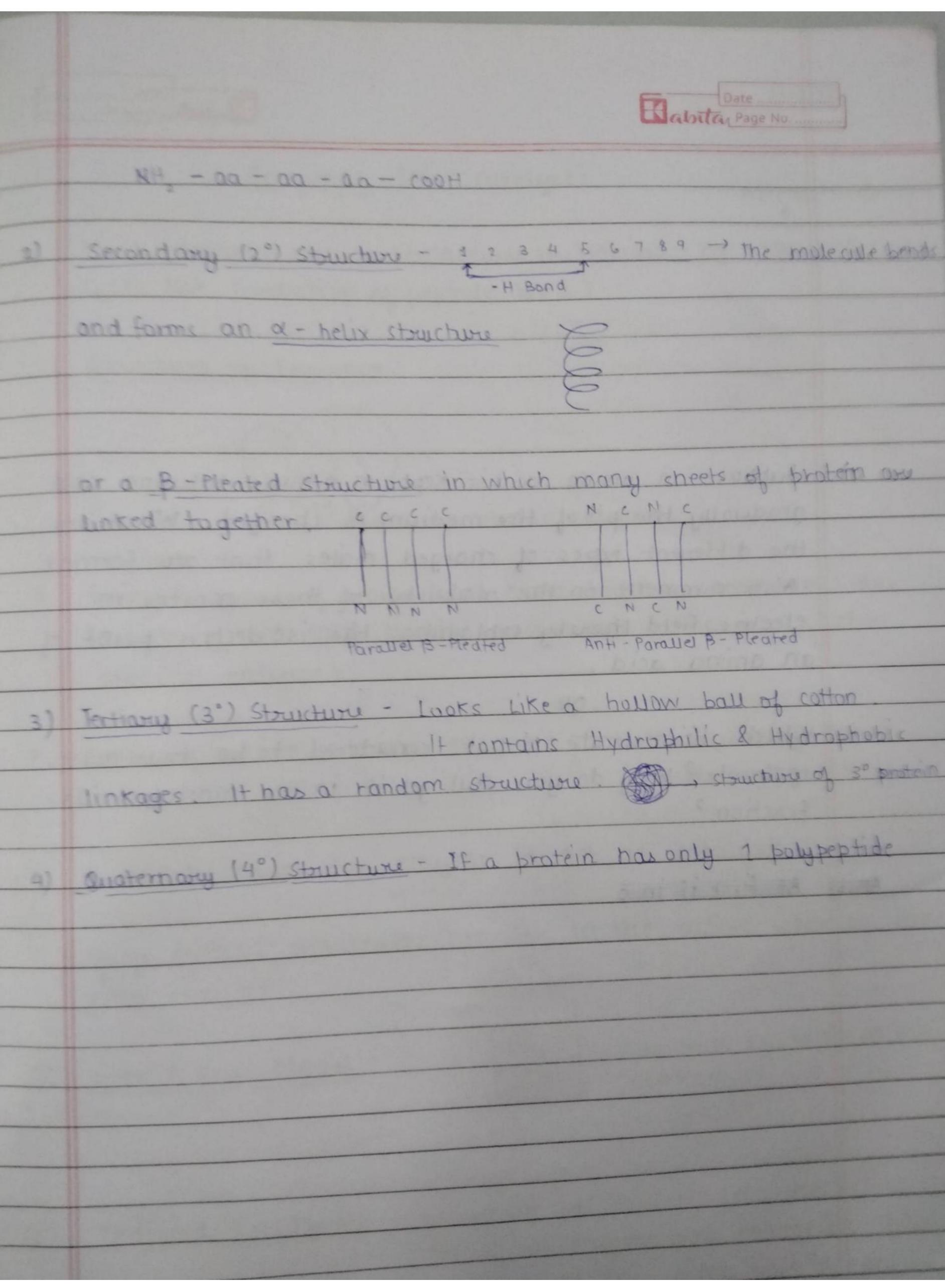
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	At first if in a basic solution we keep amino acid, the At first if in a basic solution we keep amino acid, the At first if in a basic solution we keep amino acid, the condition of amino acid is. On application of electric field the ion moves towards the positive terminal. H, N-C-coo [H+]]]		
	· Gradually, if we increase the acidity of the solution twhen there comes a state when the on electric dipole is created there comes a state when the on electric dipole is created within the molecule and the molecule neither moves within the molecule and the molecule neither moves towards the negative towards the negative pole on application of electric current. This is ion is known as Twitter ion and the pt of which the phenomena occurs is known as iso-electric point. H		
	[Ht] 1 (pH -) Iso Electric Pt)		
	If we furthur increase the acidity of the medium then the charge on the ion becomes (+) ve and on application of electric field it moves towards the (-ve) end. H		
	$\begin{bmatrix} \bullet^{+} \\ H_{3}N - C - COOH \end{bmatrix}$		
	Structure of Proteins		
	There are different structures of proteins.		
1)	Primary (1°) Structure - Linear in nature in which the spen. It gives the information about the position of the amina acids in the protein.		
	Scannod by TanScannor		

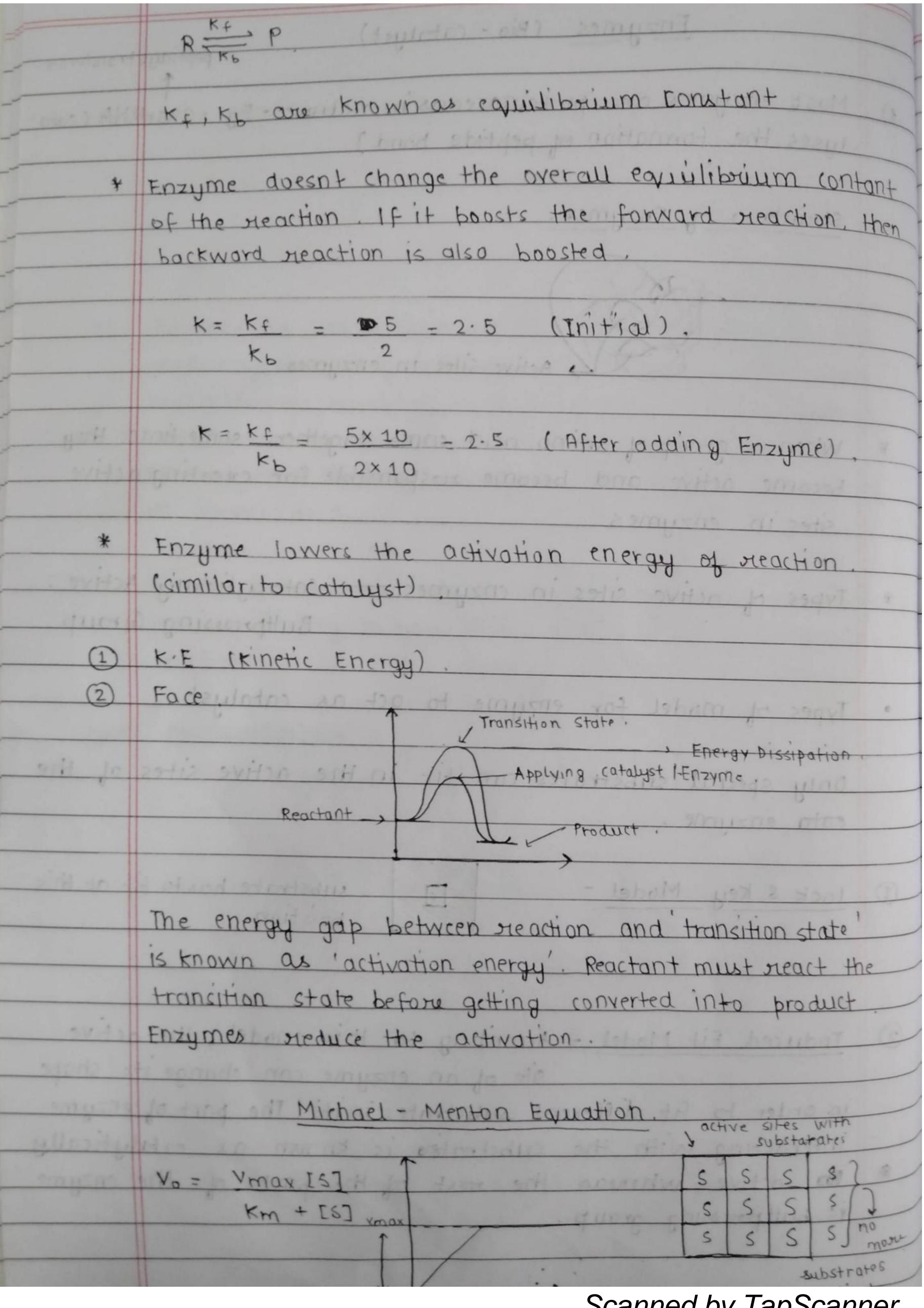


Suppose an amino acid is kept in a basic solution and gradually the pH of the medium is changed. What are the different types of charged mates that are formed.

Also comment on the mobility of these moites in electric field thereby explaining the iso electric point of an amino acid.

OR.

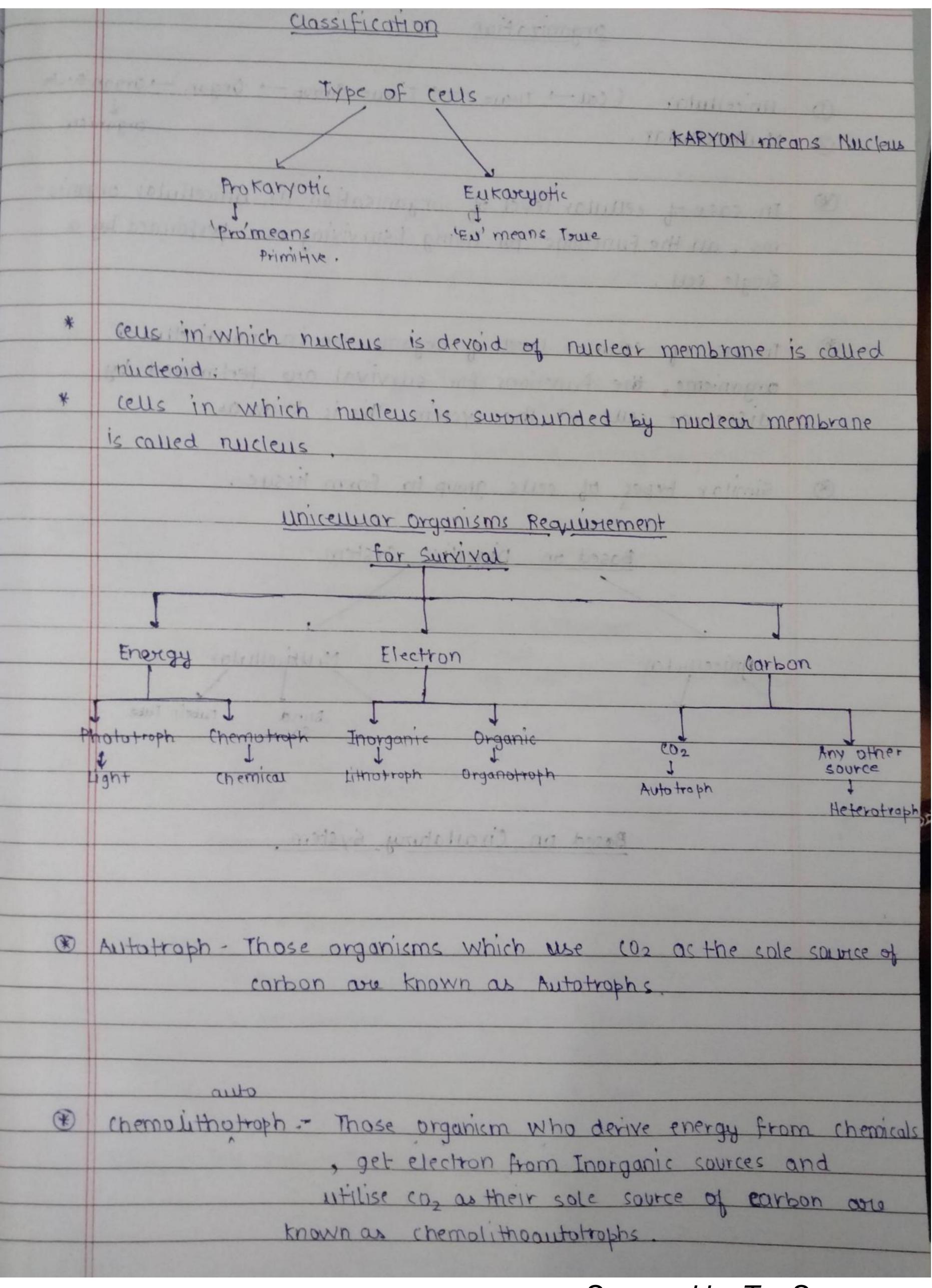
Which biomolecule is not considered to be true macro-molecule? Why do you still get it in the macromolecular fraction?

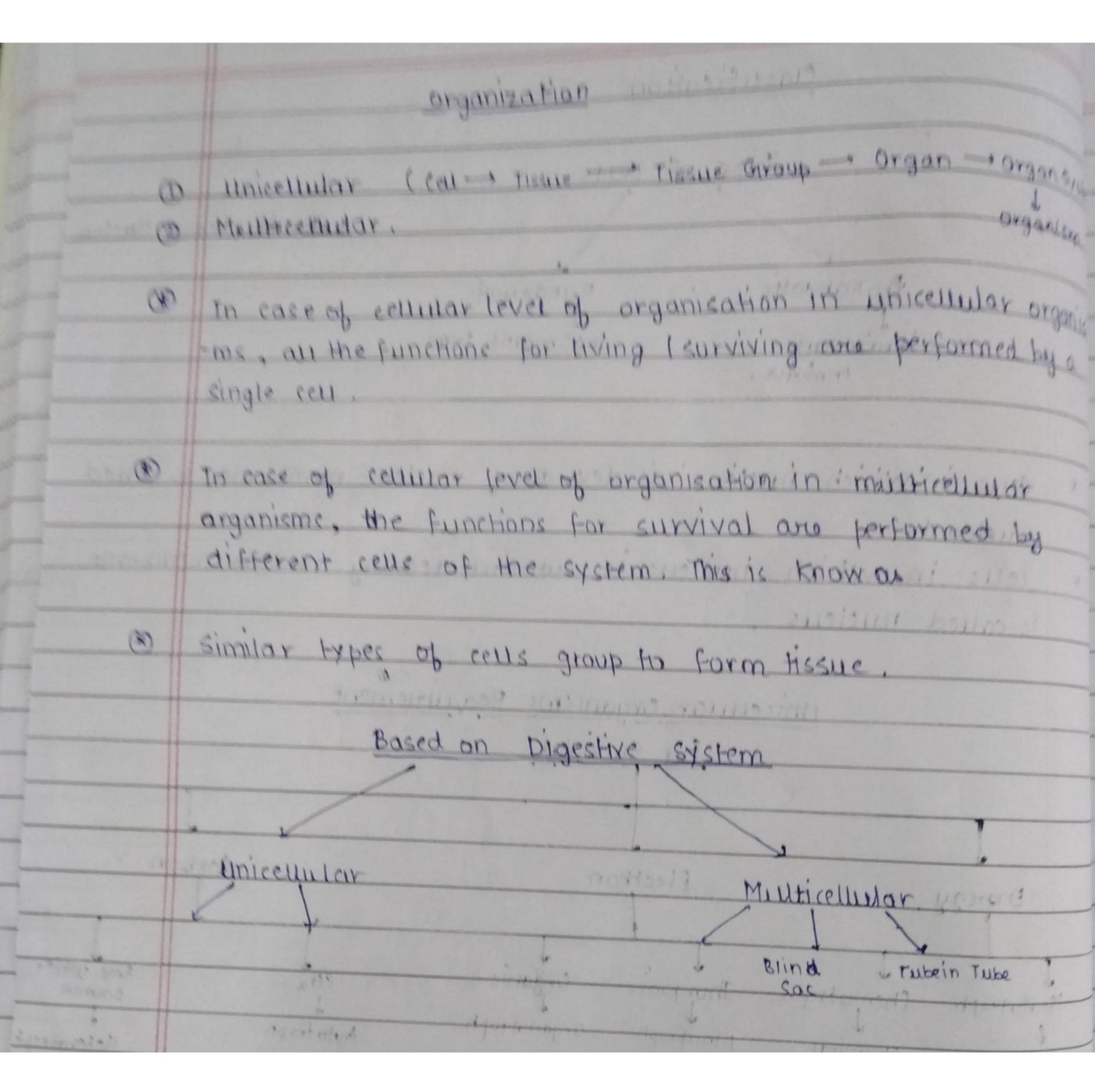


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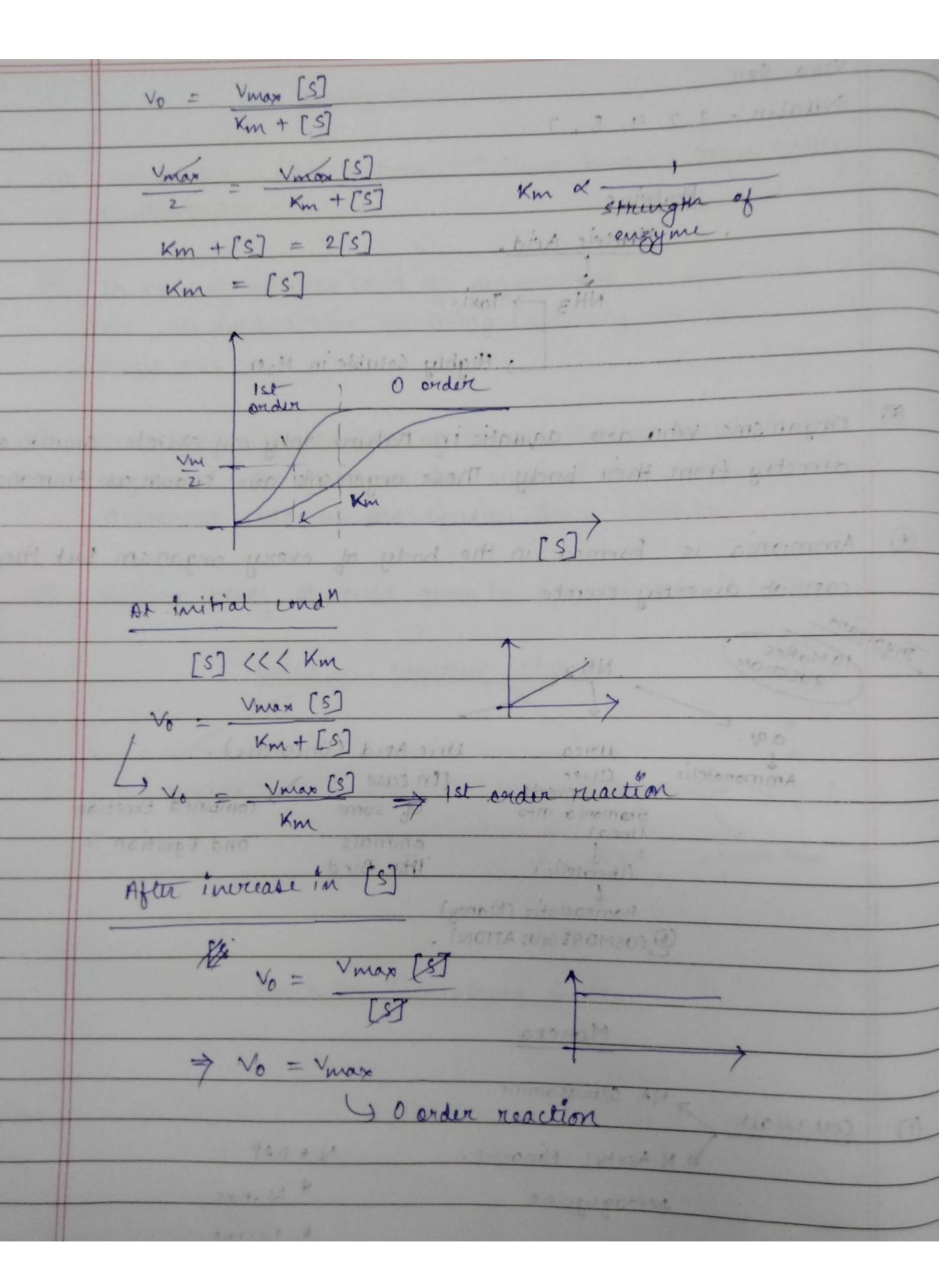
	Assignment Date Date No.
(2)	what the are the different biological functions proteins associa- ted with in a living system?
	The different tialogical functions proteins are associated with in a living system are -
0	Antibody - Antibodies bind to specific foreign particles, such as virtuses and bacteria, to help protect the body. Eg-Immunogla-bulin.
	Enzyme - Enzymes carry out almost all of the chemical reactions that take place in rells. They also assist with the formation of new molecules by reading the genetic information stored in DNA (Deaxy - Ribonucleic Acid). Eg - Phenylalanine hydroxylase
(3)	Messenger - Messenger proteins, such as some types of hormones, transmit signals to coordinate biological processes between different cells, tissues and organs. Eg- Growth Hormones.
	Structural component - These proteins provide structure and support for cells. On a larger scale, they also allow a living organism to move. Eg-Actin.
(5)	Transport / Storage - These proteins bind and carry atoms and small molecules within cells and throughout
	the body. Eg - Ferritin.

Highlight the fundamental importance of observation in any scientific enquiry by using examples of Brownian motion or the origin of thermodynamics by referring to the original observation of Robert Brown or Julius Mayor





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	Ammonatelia Cliver ronverte urea)	Unic Arid (Unicotelic). Eln case Of some combined Excetion animals and Egestion.		
	(Ureotelic)	Tike Bird		
	· ·	d'Anon)		
	Homeostatis (Kidney) (D) (OSMOREGIUL ATION).			
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	pentaglycine * Manine			
	* Lysine			
		* bilu.		
2	Fungi -> ceu wall -> cr	nitih.		



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