a) Coagulation b) Flocculation c) denaturation d) Condensation

Sho	and be written in the provided answer book only.	Minibel Of Filmica Lages 2
	SEAT No.  SEAT No.  M.Sc (Il Semester) Examination Thursday, 19 <sup>th</sup> April, 2018 10:00 am to 1:00 pm M.Sc Chemistry PS02ECHE02 – Introduction to Biochem	1
		TOTAL MARKS: 70
	Tick mark / select the correct answer for the following. (Only cornber needs to be written in provided answer book)	rect option against given question (08 Marks)
1)	Deficiency of Thiamine leads to one of the following disease  a) Beri Beri  b) Scurvy  c) Ricket  d) Night blindness	
2)	All are non essential fatty acid except a) Linolenic acid b) Oleic acid c) Stearic acid d) Palmitic acid	
3)	occurs when the inhibitory chemical, which do binds to the enzyme other than at the active site.  a) Uncatalysed reaction b) Non competitive inhibition c) Competitive inhibition d) All of the above	pes not resemble the substrate,
4)	The formation of a peptide bond between two amino acids is an reaction  a) Cleavage b) Condensation c) Reduction d) Isomerization	example of
5)	Which of the following is a non reducing sugar:  a) Lactose c) Glu b) Maltose d) Suc	acose crose
6)	-,	of RNA? anine ymine
7)	The functional unit of enzyme is known as:  a) Apoenzyme b) Coenzyme c) Holoenzyme d) Isoenzyme	
8)	The phenomenon of disorganization of native protein structure	is called

Q.2		wer any seven from the following:	14
	a) b)	Explain the term mutarotation citing α-D Glucose as an example What are proteoglycans? List different types of linkages present in proteoglycans.	
		Enlist water soluble and lipid soluble vitamins. Explain why Vitamin E is a membrane	
	c)	bound antioxidant.	
	d)	Explain 'hydrolysis' of proteins:	
	e)	Define Enantiomer with suitable example	
	f)	What is denaturation of proteins? List various agents that denature proteins.  Give the enzymatic reactions carried out by chymotrypsin.	
	g) h)	What are inducers and repressors? Explain with suitable examples.	
	i)	State Chargaff's rule of DNA structure	
Q.3	(A)	Give an account of absorption, transport and storage of vitamin B12	6
	(B)	Write a short note on phospholipids.	6
	(D)	OR	_
	(B)	Describe the various structural lipids involved in plasma membrane of various living organisms.	6
Q.4	(A)	What are the four levels of protein structures? Describe the primary structure of protein	6
		in detail.	
	(B)	Classify amino acids on the basis of their structure.	6
	(B)	OR Write a note on	6
	(0)	(1)Fibrous protein	U
		(2)Globular protein	
Q.5	(A)	What are isomers? Draw all possible isomers of Glucose.	6
Q,J	(A)	What are isomers? Draw all possible isomers of Glucose.	U
	(B)	Give an outline classification of carbohydrates. Explain the formation of Hawarth	6
		projection of glucose with its importance.	
	(B)	OR Give a brief explanation on the ionization of water.	6
	(13)	Give a brief explanation on the lonization of water.	Ü
Q.6	(A)	What is enzyme inhibition? List the various types of enzyme inhibition and explain any	6
		one enzyme inhibition in detail.	
	(B)	Give a diagrammatic overview of Watson & Crick's double helical structure of DNA.	6
		OR	
	(B)	Explain enzyme specificity in detail.	6
		X	