M.Sc (II Semester) Examination Saturday, 29th October, 2016 10:00 am to 1:00 pm

	PS02	Organic Che 2ECHE02 – Introducti		ochemistry	
		•			TOTAL MARKS: 7
	Tick mark / select the correct		ng. (<i>Onl</i>)	/ correct option ag	ainst given question (08 Marks
1)	Citrus fruits, gooseberry, gua a) Ascorbic acid b) Tocopherol c) Thiamine d) Retinoic acid	ava, tomatoes are rich	source o	of	
2)	The phospholipid that preven a) Cardiolipin b) Dipalmitoyl lecithin c) Lysolecithin d) Plasmalogens	nts the adherence of in	ner surfa	nce of lungs is	
3)	Proteins are polymers of: a) D-glyceraldehydes b) D-amino acids c) L-amino acids d) L-glyceraldehydes				
4)	The charged molecules whica) Anion b) Zwitter ion c) Cation d) None of the above	h are electically neutra	al is knov	vn as	
5)	The protein part of the enzyma) Holo enzyme b) Prosthetic group c) Apo enzyme d) None of above	ne is known as:			
6)	Which sugar is known as nor a) Lactose b) Glucose	n reducing sugar?	c)	Sucrose Maltose	
7)	The weak attractions among a) Nuclear forces b) Electrostatic force c) Van-der-waals interactio d) None of the above				
8)	Which base is not present in a) Adenine b) Guanine	the structure of RNA?	c) d)	Uracil Thiamine	

Q.2	Ansı a)	wer any seven from the following: What do you mean by vitamers? Write vitamers of vitamin-A.	14
	b)	Give the classification of vitamins.	
	c)	Draw the structure of following: (1) Plasmalogen (2) Cardiolipin	
	d)	Describe the primary structure of protein.	. ·
	e)	Write a note on "Inversion of sucrose".	
	f) g)	Define the terms epimers and enantiomers with examples Write a short note on activation of latent enzymes.	
p.	h)	Describe the chemical nature and properties of enzyme.	
	i)	What are the functions of nucleic acids?	٠.
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Q.3	(A)	Describe the biochemical function of vitamin A in vision process.	6
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	(B)	Write an account on properties of triacylglycerols.	6
	(B)	Describe the structure and function of cholesterol.	6
Q.4	(A)	Describe the various structures of proteins.	6
	(B)		6
	(B)	OR Write brief account on the following:	6
	(5)	(i) Fibrous proteins	٠
•		(ii) Globular proteins	
ş.			
Q.5	(A)	Define polysaccharides. Describe the structure and role of two homo	6
		polysaccharides.	
	·(B)	Define monosaccharides and explain it's reactions.	6.
	(5)	OR	.
	(B)	Describe the ionization of water.	6
Q.6	(A)	Explain enzyme inhibition.	6
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	(B)	Describe the mechanism of action of Hexokinase enzyme. OR	6
	(B)	Explain the other type of DNA structure.	6

