KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2013 Admission
IInd Semester Final Examination- June -2014

T	itle:]	Fundamentals of Biochemistry (2+1)	Time: 2 hours
I	Fi	ll up the blanks / State True or False	$(10 \times 1=10)$
200	1.	is a reducing sugar	
	2.	The amino acid is involved in the information of disulphide	e bonds
		The protein present in milk is	
	4.	is an essential fatty acid	
	5.	The coenzymic form of nicotinic acid is	
	6.	Oleic acid is a structured fatty acid	
	7.	Pyruvic acid is the end product of glycolysis under aerobic conditions	
	8.	Iodine number indicates the degree of unsaturation of a lipid	
	9.	TCA cycle is an amphibolic pathway	
	10	. Cellulose is a polymer of $\alpha - D$ glucose units	
n	Writ	te short notes on any FIVE questions	(5x 2=10)
	1.	Transamination	
	2.	Oligosaccharides	(8 ₅₁)
	3.	Nutritional quality of milk	Pi .
	4.	Pectins	
	5.	Lipases	
	6.	Trypsin	
	7.	Inhibitors of cellular respiration	
П	I Wr	ite short notes on any FIVE questions	(5x 4=20)
	1.	Give the classification of enzymes with examples	
	2.	Explain the chemical properties of carbohydrates	
	3.	Write a short essay on compound lipids	
	4.	Classify protein based on their solubility	
	5.	What are the applications of immobilized enzymes	
	6.	Explain the metabolic inter-relationship	
	7.	Outline the reaction of TCA cycle	

(1x 10=10)

III Write essay on any ONE questions

- Explain the mechanism of enzyme action. Discuss the influence of various factors affecting enzyme action
- Describe the structure of protein with reference to primary, secondary ,tertiary and quaternary structure
