KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food . Engg) Degree Programme 2015 Admission IInd Semester Final Examination- June – July 2016

	. No: Fdqu 1201 e: Fundamentals of Biochemistry (2+1)	Marks: 50.00 Time: 2 hours
I Fill up the blanks		$(10 \times 1 = 10)$
	1. Egg yolk is rich in	
2	Oxaloacetate is converted to first in TCA cycle.	
2	3. Fatty acids are broken down to in beta oxidation	er .
: 4	4. Ribose is a sugar.	
	a) Triose b) Pentose c) Diose d) Hexose	
- 5	5. Natural seed gums are	
	a) Proteins b) fats .c) Dioses d) polysaccharides	
Sta	te whether true or false	
6	. Tyrosine gives a positive xanthoproteic test	
7	. Pectin is water insoluble.	
8	. Enzyme action is not affected by change in pH.	
9	. Arginine is a basic amino acid.	
1	Co enzymez are basically proteins.	
II	Write short notes ANY FIVE	$(5 \times 2 = 10)$
1.	. Influence of temperature on enzyme action.	(0 42 10)
2.	Which are the acidic amino acids?	
3.	How sugars are classified?	
4.	Phospholipases.	
5.	Algal polysaccharides.	
6.	What is iodine test? How it is performed?	
7.	Nutritional quality of milk.	
III. E	xplain ANY FIVE of the following	$(5 \times 4 = 20)$
1.	Properties of reducing sugars.	
2.	Essential fatty acids.	
3.	Glycolysis.	
4.	Enzyme inhibition.	
5.	Proteolytic enzymes.	
6.	Classification of fatty acids.	
7.	Test for the presence of protein.	
IV. W	rite essay on ANY ONE	(1 x 10=10)
1.	Describe cellular respiration	·- **
2.	Explain structure of proteins.	
