

## KERALA AGRICULTURAL UNIVERSITY

## B.Sc. (Hons.) Ag. Re-examination - July 2019 2015 and previous admission

Ssac.1202 Agricultural Biochemistry (2+1)

Marks: 50 Time: 2 hours

I		Fill in the blanks					(10x1=10)
	1	Total number of nitrogen atoms present in purine ring is					
	2	is an essential 18 carbon fatty acid having 2 double bonds.					
	3	The common metabolic pathway for carbohydrate, lipid and protein metabolism is					
		State True or False					
	4	Double stranded left landed DNA is Z DNA.					
	5	Lysine is a basic amino acid.					
	6	Ketone bodies are produced due to excess		ion of fatty ac	ids.		
	7	The absorption maxima of protein is at 260 nm.					
		Choose the correct answer					
	8	Amylose and amylopectin are the component	ents of				
		a) Starch b) Dextrin	c)	Glycogen	d)	Inulin	
	9	The allosteric inhibitor of an enzyme					
		a) Causes the enzyme to work faster b) Binds to the active					
		<ul> <li>c) Participates in feedback regulation</li> </ul>	d)	Denatures th	e enzy	me	
	10	Sorbitol is the alcohol of					
		a) Glucose b) Sucrose	c)	Maltose	d)	Lactose	
TT		White Short notes on ANN DINE of the	Callaggi	l-a			(5x2=10)
П	,						(3,2~10)
	1 2	Substrate level phosphorylation.					
	3	Photorespiration.					
	4	Mutarotation.					
	5	Epimers and anomers.					
	6	Rancidity of Oil.					
	7	Genetic code.					
	•	Conous vous.					
Ш		Answer ANY FIVE of the following					(5x4=20)
	1	TCA cycle.					•
	2	Water soluble vitamins and their functions.					
	3	DNA replication.					
	4	Importance of alkaloids.					
	5	Mechanism of enzyme action.					
	6	Secondary structure of proteins.					
	7	Structure of t-RNA.					
IV		Write an essay on ANY ONE of the follo	wina				(1x10=10)
4 7	1	Explain the reactions of photosynthesis.					(1710-10)
	2	Describe the reactions of glycolysis under aerobic and anaerobic condition.					
	4	Deserted the reactions of grycorysis under actoric and anacrotic condition.					

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