

KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Forestry 2018 Admission

I Semester Final Examination-February 2019

Plant Biochemistry (1+1)

Marks: 50

Time: 2 hours

	Fill up the blanks	(10x1=10)
1	Two monosaccharide units are linked by	
2	Fatty acid with 18carbon and 2 double bonds is	
3	Carbohydrate present in DNA is	
4	Catalytic activity of an enzyme is due to	
5	In photosynthesis, light energy is converted to	
	State True or False	
6	Change in the optical rotation is called mutaroation.	
7	Methionine is a sulphur containing aminoacid	
8	Essential amino acids are taken only through the diet	
9	β oxidation of fatty acid is takes place in cytosol	
10	Cytokinin is the first discovered phytohormone	
	Write Short notes on ANY FIVE of the following	(5x2=10)
1	Reducing and non reducing sugars.	
2	Amphoteric molecule.	
3	Give the major classes of enzyme.	
4	Iodine number.	
5	Secondary structure of a protein.	
6	Significance of Pentose phosphate pathway.	•
7	Electron transport chain.	
	Answer ANY FIVE of the following	(5x4=20)
1	Classification of Carbohydrate with example.	
2	Types and functions of phospholipids.	
3	What is enzyme inhibition? Discuss the competitive and non competitive inhibition.	
4	Structures of nucleoside and nucleotide.	
5	Hill's reaction.	
6	Structure of a chloroplast.	
7	Allosteric enzymes and coenzymes	
	Answer ANY ONE of the following	(1x10=10)
1	Sequence reactions of TCA cycle with its significance.	187
2	Salient features of DNA and the structure of DNA double helix, with neat diagram.	