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## B.Sc. (Part - III) (Semester - V) Examination, November - 2018 BOTANY

## Plant Biochemistry (Paper - XII) Sub. Code: 65839

	Sub. Code: 65839					
	*	018	Total Marks : 40			
ns:	2) Marks to the rig					
rite t	the following sentence	es by choosing	correct alternative: [8]			
	is the epimer of	f glucose.				
i)	Fructose	ii)	Galactose			
iii)	Xylose	iv)	Erythrose			
ATP equivalents per mole of glucose input are required for gluconeogenesis.						
i)	2	ii)	6			
iii)	8	iv)	4			
The	e smallest of the RNA	A's is				
i)	mRNA	ii)	tRNA			
iii)	rRNA	iv)	Okazaki fragments			
amino acid starts the process of protein synthesis.						
i)	Alanine	ii)	Proline			
iii)	Methionine	iv)	Glycine			
In eukaryotes fatty acid breakdown occurs in						
i)	cytosol	ii)	cell membrane			
iii)	mitochondrial matrix	x iv)	chloroplast			
	.00 ms:  //rite / i)  iii)  The i)  iii)  In e i)	Date: Thursday, 15 - 11 - 26 .00 noon to 2.00 p.m.  Ins: 1) All questions are 2) Marks to the rig 3) Draw neat and I  Trite the following sentence is the epimer of i) Fructose iii) Xylose  ATP equivalents gluconeogenesis. i) 2 iii) 8  The smallest of the RNA i) mRNA ii) rRNA iii) rRNA iii) rRNA iii) rRNA iii) rRNA iii) danine iii) Methionine In eukaryotes fatty acid i) cytosol	Date: Thursday, 15 - 11 - 2018  .00 noon to 2.00 p.m.  ns: 1) All questions are compulsory.  2) Marks to the right indicate full m  3) Draw neat and labelled sketches  rite the following sentences by choosing  is the epimer of glucose.  i) Fructose ii)  iii) Xylose iv)  ATP equivalents per mole of gluconeogenesis.  i) 2 ii)  iii) 8 iv)  The smallest of the RNA's is  i) mRNA ii)  iii) rRNA iv)  amino acid starts the process  i) Alanine ii)  iii) Methionine iv)  In eukaryotes fatty acid breakdown occii) cytosol ii)			

*P.T.O.* 

	f)	The key enzyme in the regulation of fatty acid is						
		i)	AMP activated protein kinase	ii)	Protein phosphatase			
		iii)	Acid phosphate	iv)	Acetyl CoA carboxylase			
	g)	In tRNA molecule, the cloverleaf secondary structure consists of						
	C)	i)	two stem loops	ii)	three stem loops			
		iii)	one stem loop	iv)	four stem loops			
	h)	A Zwitterion is						
		i)	positive ion	ii)	negative ion			
		iii)	neutral	iv)	none of the above			
Q2) Attempt <u>any two</u> of the following: [16]								
	a)	Explain the primary and secondary structure of proteins.						
	b)	What are polysaccharides? Explain their physical and chemical properties.						
	c)	Describe the structure and role of various types of RNA.						
		H;						
Q3) Attempt any four of the following: [16]								
	a)	a) Biosynthesis of starch.						
	b)	Non protein amino acids.						
	c)	$\beta$ - oxidation of fatty acids.						
	d)	Classification of lipids.						
	e)	Farms of DNA.						
	f)	Cellulose.						
	-)							
	4 4 4							
			<b>+</b> +	<b>+</b>	CA-S			