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M.Sc. (Part—I) (Semester—II) (CBCS Scheme) Examination BOTANY Paper—VIII (Plant Metabolism)

(Plant Metabolism)							
Time—Three Hours] [Maximum Marks—8							
	No	te :—(1)	All questions are compulsory and carry equal marks.				
		(2)	Draw well labelled diagrams wherever necessary.				
1.	1. Write on :—						
	(a)	Propertie	s and functions of carbohydrate in pla	nts. 5			
	(b)	Biosynth	esis of starch.	5			
	(c)	Pentose	phosphate pathway.	6			
OR							
	(d)	Monosac	charides.	5			
	(e)	Biosynth	esis of sugar.	5			
	(f)	Triose pl	nosphate pool.	6			
2.	2. Write on :—						
	(g)	Inorganic	nitrogen assimilation.	5			
	(h)	Biosynthe	esis of proline.	5			
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	(i)	Protein degradation.	6
		OR	
	(j)	Biosynthesis of amino acids.	5
	(k)	Synthesis of cytosolic proteins.	5
	(l)	Modification of protein after translation.	6
3.	Wri	te on :—	
	(m)	Functions of various lipids in plants.	5
	(n)	Biosynthesis of fatty acids.	5
	(o)	Catabolism of storage lipids.	6
		OR	
	(p)	Classification and properties of lipids.	5
	(q)	Synthesis and functions of structural lipids.	5
	(r)	Steroids.	6
4.		ve a detailed account on asymbiotic and symbiogen fixation.	otic 16
		OR	
	Gi [*] pat	ve an account on reductive sulphate assimila hway. Add note on synthesis of glutathione.	tion 16
5.		ve an account on various types of second tabolites in plants.	dary 16
		OR	
	Gi	ve an account of phosphate metabolism in pla	ants. 16
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