AU-308

M.Sc. Part-I Semester—II (CBCS Scheme) Examination BOTANY

(Plant Metabolism)

Paper-VIII

Time	: T	aree Hours]	[Maximum Marks : 80	
Note:—(1) All questions are compulsory and carry equal marks. (2) Draw well labelled diagrams wherever necessary.				
1.	Wri	te on :		
	(a)	Regulation of glycolysis		6
	(b)	Sucrose Synthesis		5
,	(c)	Pentose phosphate pathway.		5
OR				
+	(d)	Starch Biosynthesis		6
	(e)	Regulation of gluconcogenesis		5
	(f)	Glycolysis.		5
2.	Wri	te on :		
((g)	Oxidative deamination reactions		6
	(h)	Proline synthesis and stress		5
	(i)	Storage Proteins.		5
			OR	
((j)	Transamination		6
	(k)	Biosynthesis of aromatic amino acid		5
	(1)	Post translation modification of protein	ns.	5
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3.	Giv	e detail account of classification, structure and functions of lipids.	16	
		OR		
	Giv	e detail account of catabolism of storage lipids. Add a note on its functions.	16	
4.	Write on:			
	(m)	Nitrite reduction	6	
	(n)	Sulphur fixation	5	
	(o)	Synthesis of glutathione.	5	
		OR		
	(p)	Ammonia uptake and reduction	6	
	(q)	Reductive sulphate assimilation	5	
	(r)	Functions of glutathione and its derivatives.	5	
5.	Give detail account of different types of glycosides. Add a note on its distribution and localizate			
			16	
		OR		
	Giv	e detail account of principle of HPLC. Add a note on its application.	16	