AQ-895

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

			(I lant I nysio	nogy)	
Tim	е—Т	hree Hou	rs]	[Maximum	Marks—80
	Not	e:(1)	All questions carry equal m	-	sory and
		(2)	Draw well wherever nece		iagrams
1.	Wri	te on :			
	(a)	First law	of thermodyn	amics.	5
	(b)	Significa	nce of Michae	lis-Menton	equation. 5
	(c)	Redox re	eaction.		6
			OR		
	(d)	Modulate	or.		5
	(e)	Structure	and functions	of ATP.	5
	(f)	Dissocia	tion constant.		6
2.	Explain mechanism for tolerance of water stress. As a note on osmolyte.				er stress. Add 16
			OR		
			ive transport ? g transport acro		
UBS	—511	120	1		(Contd.)

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3. Give an account of components of electromagnetic spectrum. Calculate energy of one photon at 600 nm. $(h = 6.62 \times 10^{-34} \text{ Js/photon}).$ 16 OR Explain photosynthetic carbon reduction cycle. Add a note on its physiological & ecological significance. 16 4. Write on :--5 (g) Complex-I of ETS. 5 (h) Significance of photorespiration. Oxygenase activity of RUBISCO. 6 (i) OR Structure of complex-III 5 (i) (k) Significance of PCD. 5 (1) Role of hormones in fruit ripening. 6 5. Write on :--(m) Physiological effect of polyamines. 5 5 (n) Significance of Florigen. 6 (o) Seismonasty. OR 5 (p) Nyctinastic movement. (q) Vernalization. 5 (r) Physiological effect of Salicylic acid. 6