AU-390

M.Sc. Part-I Semester-III (CBCS) Examination BOTANY (Elective) (Plant Tissue Culture-II)

		Paper-XII	
Time	: T1	rree Hours] [Maximum Marks:	80
N.B.	:-	(1) All questions carry equal marks and are compulsory.	
		(2) Illustrate your answer with suitable diagrams.	
1.	Writ	te on :	
	(a)	Cryopreservation	5
1	(b)	Production of Zygotic embryos	5 5
	(c)	Maintenance of germplasma	6
		OR	
		Somatic embryogenesis	5 5 6
		Synthetic seed production	3
	(f) C:	• •	16
2.	CIV	e an elaborate account of production of haploid plants. Add a note on its significance. OR	10
	Disc	cuss in detail on role of polyploids in hybrid plant production.	16
		te on :	1 17
		Isolation of protoplast	5
		Cybrids	5 5 6
	(i)	Significance of protoplast culture.	6
		OR	
		Somatic hybrids	5 5
		Regeneration of plants through cybrids	
	(l)	Identification of somatic hybrids.	6
4.	Elab	porate on production of transgenic plants through vector mediated gene transfer techniqu	es. 16
		OR	+ ()
	Diec		16
		e on :	
		Shoot organ culture	5
		Significance of cryopreservation	5 5
		Food additives.	-6
		OR	
		Production of anticancerous agents	5 5
	(q)		
	(r)	Molecular farming.	6
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