M.Sc.(Biotechnology) (C.B.C.S. and Old Pattern) Sem-III **PSBIT110 / BT3-T010 - Paper-II : Plant Biotechnology**

	Pages: 1 ne: Three H	ours * 3 1 7 7 *	GUG/S/19/11237 Max. Marks : 80
	Notes :-	All questions are compulsory and carry equal marks.	
1.	Des	scribe the composition and preparation of plant tissue culture media. OR	16
		ite note on followings.	0
	a)	Conventional plant breeding.	8
	b)	Callus culture.	8
2.	Des	scribe the followings.	
	a)	Embryogenesis.	8
	b)	Hybrid plants.	8
		OR	
	Wr	ite on followings.	
	a)	Production of haploid plants.	8
	b)	Protoplast isolation.	8
3.	Dis	cuss the biological and physical methods of nuclear transformation. OR	16
		ite note on followings.	_
	a)	Chloroplast transformation.	8
	b)	General features of Ti plasmid.	8
4.	Des	scribe different transgenic plants used as a food. OR	16
	Wr	ite note on followings.	_
	a)	Bt genes.	8
	b)	Nematode resistance.	8
5.	Wri		
	a)	Role of Auxin in plant tissue culture.	4
	b)	Cybrid.	4
	c)	Hairy roots.	4
	d)	Male sterile lines.	4
