M.Sc.(Botany) (CBCS Pattern) Sem-IV PSCBOTT13 - Paper-XIII : Plant Biotechnology

P. Page Time :	Three Hours $* 0 4 9 0 *$	GUG/W/22/11355 Max. Marks : 80
Ň	Iotes :1. All questions are compulsory and carry equal marks.2. Draw well labelled diagrams wherever it is necessary.	
1.	Write an essay on Gene cloning, its applications and technique.	16
	OR	
	Write on:a) Transgenic plants.b) Different types of vectors.	8 8
2.	What is microbial genetic manipulation? How does it plays an important refermentation technology.	ole in 16
	OR	
	Write on:a) DNA sequencing.b) Protein profiling and its significance.	8 8
3.	Write an essay on principles and scope of plant tissue culture. Add a note capplications.	on its 16
	OR	
4	 Write on: a) Salient achievements in crop biotechnology b) Somatic hybridization. 	8 8
4.	What is Bioinformatics? Add a note on its applications and primary databa OR	16 ses.
	Write on:	
	a) Blast	8
	b) Secondary databases.	8
5.	 Write short notes on: a) Restriction enzymes. b) PCR c) MS-Medium. 	4 4 4
	d) FASTA.	4
