		http://www.spp	
Total No. of Questions :8]		SEAT No. :	
P18	[4936]-46	[Total No. of Pages :2	
M.Sc. BIOTECHNOLOGY			
BT-44C:Agricultural Biotechnology			
(2008 Pattern) (Semester - IV)			
Time	: 3 Hours]	[Max. Marks :60	
Instr	actions to the candidates:		
	1) Attempt total five questions selecting at least two questions from each section.		
	Answer to the sections must be writen on separate		
	Neat labelled diagrams must be drawn wherever Figures to the right indicate full marks.	necessury.	
	<u>SECTION - I</u>		
Q1)	What are pure lines? 'Production of purelines culture is convinient over conventional method		
Q2)	Explain how triploid plants are produced by the significance of triploid plants in Agriculture.	issue culture technique. Give [12]	
Q3)	With suitable example comment on micropropa plant.	agation of any one cereal crop [12]	

a) Significance of embryo culture.

- b) Induced polyembryony.
- c) Biofertilizers.

**Q4)** Write notes on (Any two)

[12]

## **SECTION - II**

- **Q5)** Enlist and explain types of bioreactors used in plant production. [12]
- **Q6)** Elaborate transgenic approaches used to develop plants resistant to any two abiotic stresses. [12]
- Q7) Define somaclonal variations. Explain factors affecting somaclonal variations.Add note on its significance. [12]
- **Q8)** Write notes on (Any two)

[12]

- a) Virus indexing.
- b) Types of apomixis.
- c) Marker assisted selection.

