Total No. of Questions :8] **P2240**

SEAT No.:	
[Total	No. of Pages :2

[5332] - 46

M.Sc.

BIOTECHNOLOGY

BT - 44C : Agricultural Biotechnology (2008 Pattern) (Semester - IV)

Time: 3 Hours] [Max. Marks:60

Instructions to the candidates:

- 1) Attempt a total of five questions selecting atleast two questions from each section
- 2) Answer to the sections must be written on separate answer books.
- 3) Neat diagram must be drawn wherever necessary.
- 4) Figures to the right indicate full marks.

SECTION - I

- Q1) Write notes on any two:
 - a) Polyembryony.
 - b) Embryo rescue technique.
 - c) Somalclonal variation.
- Q2) What are triploids? write methods for the production of triploids in agriculture.Add notes on their importance. [12]
- Q3) Explain multiplication of elite varieties of cereals by micropropagation with suitable examples.[12]
- Q4) Write in detail the methods of homogygous plant production by another culture.Write its applications. [12]

[12]

SECTION - II

<i>Q</i> 5)	7) Write notes on any two:		
	a)	Metabolic engineering.	
	b)	Bio fertilizers.	
	c)	Virus indexing.	
Q6)	Expla	ain with the help of suitable example herbicide resistant transgenic cro	p
	deve	elopment in agriculture. [1	2]
Q 7)	Write	e the role of molecular markers for crop improvement giving example	for
	bioti	ic stress. [1	2]
Q 8)	What	t are bioreactor? Explain how they can be used for large scale producti	on
	of pl	lants. [1	2]

