CBCS Scheme

USN		16	/17BBT23
		Second Semester M.Tech. Degree Examination, June/July 20	018
		Agricultural Biotechnology	
Tin	ne: 3	3 hrs. '	1arks: 80
	1	Note: Answer any FIVE full questions, choosing one full question from each mo	dule.
		Module-1	
1	a.	Explain the Agro - Climatic zones and Cropping patterns of India.	(08 Marks)
	b.	Write an essay on "Modern Agricultural Biotechnology".	(08 Marks)
		OR	
2	a.	Discuss the impact of hybridization in Indian agriculture sector.	(08 Marks)
	b.	Write short notes on i) Mutation ii) Haploidy and Polyploidy.	(08 Marks)
3		Explain the April 20 moth adalasias for the development of high mofernment	1!
3	a.	Explain the various methodologies for the development of high performance and resistant variety of crops.	
	b.	Write short notes on :	(08 Marks)
		Chitinase and fungal resistance ii) Agro bacterium.	(08 Marks)
(1		20
an'	000	OR Eventain Salimits talanan as and drawalst maistern as availating	(a) (b)
35	b.	Explain Salinity tolerance and draught resistance varieties. Essay on "Impact of BT – genes and Environment".	(08 Marks)
Ø.	υ.	Essay on impact of BT – genes and Environment.	(vo marks)
		Module-3)
5	a.	Discuss about callus and cell suspension cultures.	(08 Marks)
	b.	Detail note on role of tissue culture in rapid clonal propagations.	(08 Marks)
		OR	
6	a.	Infer and the haploid production and its advantages.	(08 Marks)
	b.	Write short notes on: i) Protoplast technology ii) Somatic embryogenesis.	(08 Marks)
7	0	Write a detail note on the science behind delaying the softening and ripening by a	nticonco
,	a.	RNA.	(08 Marks)
	b.	Discuss the role of biotechnology for protection of cereals after harvesting.	(08 Marks)
0		OR	
8	a.	Comment on the role of biotechnology for fortification taking transgenic sweet p example.	
	b.	Explain the importance of biotechnology in production of bio fertilizers.	(08 Marks) (08 Marks)
	٥.	2.19.2 are importance of orottomorogy in production of the fortifizers.	(oo mains)
		Module-5	
9	a.	Write short notes on Cartagena protocol ii) GM foods.	(08 Marks)
	b.	Discuss the norms of Government of India on BT products.	(08 Marks)

Breakdown the guidelines to be followed for research on BT products.

b. Recall the ethical issues associated with labeling and consumption of GM foods. (08 Marks)

(08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and for equations written eg, 42+8 = 50, will be treated as malpractice.