	Enrollm	ent No:		Exam Seat No:		_	
			C.U.SHAH U	UNIVERSITY			
	Summer Examination-2018						
	Subject 2	Name: 1	Plant Biotechnology				
	Subject Code: 4LS03BOT1/4SC03Pl		LS03BOT1/4SC03PBT1	BT1 Branch: B.Sc. (Microbiology)			
	Semester	r: 3	Date: 22/03/2018	Time: 02:30 To 05:30	Marks: 70		
	 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 						
Q-1		Attem	pt the following questions:			(14)	
	a)	What	is Ti plasmid?				
	b)		e Protoplast.				
	c)		is a transgenic plant?				
	d)	Define	e plasmid				
	e)	Define					
	f)		is micropropagation?				
	g)		is copy number of a plasmid?				
	h)		is Somatic embryogenesis				
	,	i) Name any herbicide resistant transgenic plant					
	j)		any two applications of Plant	Issue Culture			
	k) l)		e sterilization	202			
	m)		House is used for what purpos any media used for PTC	SE !			
	n)		the organism from which Ti p	lasmid is isolated			
Atte	,		estions from Q-2 to Q-8	asima is isolated			
Q-2			pt all questions			(14)	
	a)		a note on applications of PTC	<u> </u>		(7)	
	b)	Explai	in in detail the process of soma	tic hybridization		(7)	
Q-3			pt all questions			(14)	
	a)		a note on organ culture			(7)	
	b)	How T	Γi plasmid is used as vector for	gene transfer? Explain it.		(7)	



Write a note on applications of transgenic plants
Explain the process of Electroporation and Microinjection

Attempt all questions

Q-4

a)

(14)

(7) (7)

Q-5		Attempt all questions		
	a)	How genes are transferred using Liposome? Explain it	(7)	
	b)	Write a note explain the applications of PTC	(7)	
Q-6		Attempt all questions		
	a)	Write the principle, methodology and application of callus culture	(7)	
	b)	Write a note on growth regulators used in PTC.	(7)	
Q-7		Attempt all questions	(14)	
	a)	Explain the various the sterilization techniques used in PTC	(7)	
	b)	Write the precautionary measures which should be taken while working in PTC Laboratory	(7)	
Q-8		Attempt all questions	(14)	
	a)	Write a note on explaining principle and application of suspension culture	(7)	
	b)	Explain the procedure employed for somatic embryogenesis with the help of a labeled diagram	(7)	

