	Enrollment		nt No: Exam Seat No:					
			C.U.SHAH	UNIVERSIT	\mathbf{Y}			
	Summer Examination-2017							
	Subject I	Name: I	Plant Biotechnology					
	Subject (Code: 4	LS03BOT1/4SC03PBT1	Branch: B.Sc.(Microbiolo	ogy)			
	Semester	r: 3	Date: 23/03/2017	Time: 10:30 To 01:30	Marks: 70			
	(2) I (3) I	Use of Poinstruction Oraw ne		any other electronic instrumer book are strictly to be obeyed necessary) at right places.				
Q-1		Attem	pt the following questions:	:		(14)		
Atte	n)	Name Which Define Which Which Which Which Define Which What i What a	liposome. types of embryos are develostages of micropropogation	all in plants. Stance with <i>Bacillus Thureng</i> oped during somatic embryog plant tissue culture in PTC 1 op protoplasts? used in PTC?	genesis?	1 1 1 1 1 1 1 1 1 1		
Q-2	a b	Descri Descri	pt all questions be callus cultivation in plant be with diagram the ideal ar anology experiment.	t biotechnology. rangement of laboratory for I	Plant	(14) 7 7		
Q-3	}	Attem	pt all questions			(14)		



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Explain the green house setup & explain its components & uses of it.

Enlist various applications of Plant tissue culture(PTC).

7

(14)

7

Write a note on micropropogation.

Attempt all questions

b

Q-4

	b	Describe the importance of growth factors in PTC.	7	
Q-5		Attempt all questions	(14)	
	a	Write a note on in vivo genetic transformation in plants	7	
	b	Describe methods of sterilizations of media for large scale.	7	
Q-6		Attempt all questions		
	a	Explain methods to develop transgenic plants.	(14) 7	
	b	Explain applications of transgenic plants	7	
Q-7		Attempt all questions	(14)	
	a	Physical sterilization is more useful justify this statement graphically	7	
	b	Write a note on history of PTC.	7	
Q-8		Attempt all questions	(14)	
-	a	Explain protoplast fusion and its preparation.	7	
	b	Explain process of callus formation.	7	

