www.FirstRanker.com

www.FirstRanker.com

B.Sc. (Part-III) Semester-VI Examination

6S: BIOTECHNOLOGY (R/V)

(Plant Biotechnology)

Time: Three			Hours]			[Maximum Marks:	[Maximum Marks: 80	
Note :—(1)			All questions are compulsory.					
(2)			Drav	Draw neat and well labelled diagrams wherever necessary.				
1.	(A)	Fill	in th	in the blanks:				
		(i) The movement of ions across cell membrane without need of cellula					is	
				·				
		(ii)	Excl	Exchange of CO ₂ and O ₂ in plants takes place through				
		(iii)	T-Di	T-DNA is found in plasmid.				
	(iv)			Use of electric pulse for gene transfer is called				
	(B)	Mul	tiple	iple choice questions:				
(i)			Hormone responsible for Apical Dominance is:				1/2	
			(a)	Auxin	(b)	Cytokinin		
			(c)	Ethylene	(d)	GA		
(ii)			Aseptic inoculation of explant on Nutrient medium requires :				1/2	
			(a)	Centrifuge	(b)	Growth chamber		
			(c)	Laminar Air flow	(d)	Autoclave		
		(iii)	Enz	Enzymes required for protoplast isolation are :				
			(a)	Invertases	(b)	Cellulase and Pectinase		
			(c)	Nucleases	(d)	Zymase		
(iv)		Triploids are produced by:				1/2		
			(a)	Pollen culture	(b)	Anther culture		
			(c)	Endosperm culture	(d)	All of the above		
	(C)	Ans	wer i	wer in one sentence each :				
		(i)	Defi	Define Organogenesis.			1	
	(ii) What is Somaclonal variation?						1	
	(iii) Give the role of Autoclave in Tissue culture.					ure.	1	
(iv) What is Geotropism?						1		
2. Describe :								
	(a) Growth curve.						4	
	(b)	Stru	icture	cture of stomata.			4	
	(c) Geotropism.						4	
OR								

(Contd.)

(f) Cybrids.

4

4