



THE OPEN UNIVERSITY OF SRI LANKA B. Sc. DEGREE PROGRAMME – LEVEL 05 – 2007/2008 Botany – BTU 3111/ BTE 5111 – Plant Breeding

	Reg. No
DATE:	04 th April 2008 TIME : 4.00 pm – 5.00 pm
	R ALL QUESTIONS or contains three (03) questions and six (06) pages)
1.	D. N. B. C.
a)	What is the basis of crop improvement using the technique – genetic engineering?
b)	Name four (04) types of uses of applying recombinant DNA technology in plant breeding.
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	Name three (03) different viral DNA sequences appear to function in transgenic plants to make sure resistance to viral infection.

	d)	Name three (03) types of plants which are	genetically modi	fied.
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2.	1 · · · .			
	a)	Explain what is meant by plant cell and tis	sue culture?	
	h)	What is/are the use/s of <i>in vitro</i> culture?		
	U)	What is/are the use/s of <i>in vitro</i> culture:		
		s <u>jar</u> artija ja ordina s		
	c)	State the fundamental principal in tissue of	culture and briefl	y explain it
	d)	What is micro-propagation?	:	e Me
	d)	, , , , , , , , , , , , , , , , , , ,	:	
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xplain about the applications of tissue culture	
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) Na	ame two methods use in virus and other pathogen elimination and briefly		
ez	xplain them.		
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<i>a)</i>	What are somatic hybrids?		
g)	What are sometic hybrids		
h)	Why are they important?		
11)	willy die they hapertone.		
i)	Briefly explain the methods involve in verifying somatic hybrids.		

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3.	
a)	What are seed production practices?
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b)	Why do we apply seed production practices?
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) V p	What are the two assumptions generally made in the development of seed production practices?
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l)	How many classes of certified seeds you can identify?
e)	What are they? Briefly explain.