THE OPEN UNIVERSITY OF SRI LANKA B. Sc. DEGREE PROGRAMME – LEVEL 05 – 2006/2007 Botany – BTU 3111/ BTE 5111 – Plant Breeding



ASSESSMENT TEST 2 – NO BOOK TEST (NBT) Reg. No. ----DURATION: ONE HOUR (3.30 - 4.30.p.m.) DATE: 09.02.2007 ANSWER ALL QUESTIONS This paper contains three (04) questions and six (06) pages) 1. a) What is somoaclonal variation? b) Give three reasons for genetic instability in plant cell cultures. c) What are the factors that affect somaclonal variation?

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Problems	•	garden mengenyak dan permenungan Sandyandan ber	u Britis.		
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b) Why are	somatic hybrids	important?			
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a)	What is self-incompatibility ?
b)	What is male sterility?
c)	What are the factors which determine Male Sterility?
d)	What are the applications of Male Sterility in Agriculture?

): 	What is Apomixis?
	Write down the fourmechanisms you identify in seed development.
)	What are the two assumptions generally made in the development of seed production practices ?
)	Hoe many classes of certified seeds you can identify?

		What are they ?
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	d)	Write down the procedure (as a floor chart) by which a new variety reaches the farmer.
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