THE OPEN UNIVERSITY OF SRI LANKA B. Sc. DEGREE PROGRAMME – LEVEL 05 – 2016/2017 Botany – BOU3106/BOE5106 – Plant Breeding



ASSESSMENT TEST 2-NO BOOK TEST (NBT)

			Reg. N	lo
DURATIO	N: ONE HOUR	(10.30 to 11.30 a.m	.)	DATE: 11.11.2017
	ALL QUESTIO	NS 3) questions and six	(06) pages)	
1. i) Wh	at are Seed Produ	ction Practices?		
ii) Wh	v do we apply Se	ed Production Practic		
11) **1.0				
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iv)	How many classes of certified seeds you can identify?
v)	Indicate the colour codes use for each class of certified seed?
vi)	Give a brief explanation on each class of certified seed.
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2.

A.		
i)	What are Somaclonal Variations?	
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ii)	What are the factors that affect Somaclonal Variations?	
iii)	Give three reasons for genetic instability in plant cell cultures.	
iv)	Indicate the advantages and problems encounter with Somaclonal Variations.	
	Advantages	

		•	Problems
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В			
	i)	Wha	at are Somatic Hybrids?
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	ii)	Why	y are they important?
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	iii)	Brie -	fly explain the methods involve in verifying Somatic Hybrids.
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3.			
	i)	Wha	at is Self-Incompatibility?
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	ii)	Nam	ne the different incompatibility systems found in plants.
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iii)	What is Male Sterility?
iv)	What are the factors which determine Male Sterility?
v)	What are the applications of Male Sterility in Agriculture?
vi)	Give an example of a crop plant in which Male Sterile lines are used in breeding programs.

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