

MLL



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

ASSESSMENT TEST 1 – NO BOOK TEST (NBT)
DURATION : ONE HOUR

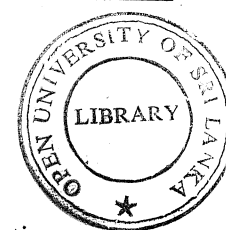
Reg. No. -----

DATE : 04th April 2008

TIME : 4.00 pm – 5.00 pm

ANSWER ALL QUESTIONS

(This paper contains three (03) questions and six (06) pages)



1.

- 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.

- c) Name three (03) different viral DNA sequences appear to function in transgenic plants to make sure resistance to viral infection.

2016

d) Name three (03) types of plants which are genetically modified.

2.

a) Explain what is meant by plant cell and tissue culture ?

b) What is/are the use/s of *in vitro* culture ?

c) State the fundamental principal in tissue culture and briefly explain it

d) What is micro-propagation ?

[illegible]

f) Name two methods use in virus and other pathogen elimination and briefly explain them.

g) What are somatic hybrids ?

h) Why are they important ?

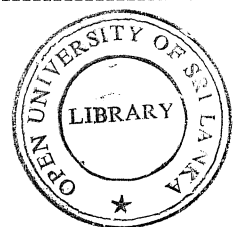
i) Briefly explain the methods involve in verifying somatic hybrids.

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3.

a) What are seed production practices ?

b) Why do we apply seed production practices ?



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[illegible]