

THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME - BOTANY - LEVEL 05

BTU3110 – PLANT PATHOLOGY II

ASSESSMENT TEST – II

NO BOOK TEST

DURATION : ONE (01) HOUR



DATE : 20th March 2011

TIME: 11.00 a.m.-12.00 noon

Registration No.....

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED.

01. a) Name the two (02) types of defence mechanisms in plants against disease.

- i.
- ii.

b) Give one (01) example of pre-existing defences for each of the two types you mention.
Briefly describe how these mechanisms attempt to prevent disease.

Example for (i)
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.....

Example for (ii)
.....
.....

c) Give one (01) example of induced defences for each of the two types you mention.
Briefly describe how these mechanisms attempt to prevent disease.

Example for (i)
.....
.....

Example for (ii)
.....
.....

(22 marks)

02. a) What is meant by true resistance in plants?

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b) Name the two (02) types of true resistance found in plants.

i.
ii.

c) How would you differentiate these two types of true resistance?

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(16 marks)

03. a) What is/are the objective/s of plant breeding?

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b) Name two (02) classical techniques and briefly describe how these are used in breeding for resistance.

i.
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.....
.....

ii.
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.....
.....

c) Give two (02) advantages of using tissue culture in breeding for resistance.

i.
.....

ii.
.....

d) Give one (01) example which has been successful in breeding for resistance using genetic engineering.

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.....
.....

e) Why is breeding for resistance a continuous process?

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(20 marks)

04. a) What is an epidemic?

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.....

b) State the three (03) main components which affect disease development.

i.
ii.
iii.

c) State two (02) factors each which influence the effect of each of these three components you mention.

i.

.....

ii.

.....

iii.

.....

(22 marks)

05. a) Briefly describe the nature of contact protective fungicides and systemic fungicides.

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b) Give two (02) examples each of commercially available fungicides for each of these two groups of organic fungicides.

Examples for protective fungicides:

i.

ii.

Examples for systemic fungicides:

i.

ii.

c) Why is it recommended to use these two types of fungicides in combination?

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(20 marks)

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