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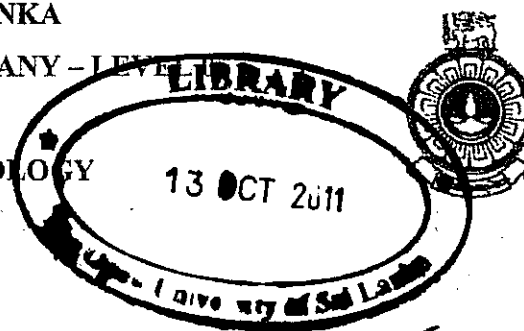
B.Sc. DEGREE PROGRAMME – BOTANY – LEVEL 1

ASSESSMENT TEST I

BOU3101/BOE5101 – PLANT PATHOLOGY

(OPEN BOOK TEST)

DURATION : ONE (01) HOUR



DATE : 04th September 2011

TIME: 11.00 a.m. – 12.00 noon

Registration No.....

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED.

01. a) Name the three (03) main groups of phytopathogens which cause disease in plants.

- i.
- ii.
- iii.

b) Explain how each of these groups of causative organisms penetrate their host plant tissue.

[Write your answer under the appropriate number corresponding to your response to Question No.1 (a)]

- i.
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- ii.
.....
- iii.
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c) Briefly describe how each of these groups colonize the host plants.

[Write your answer under the appropriate number corresponding to your response to Question No. 1 (a)].

- i.
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(24 marks)

02. a) How will you detect disease in plants on the field?

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b) Briefly describe the following terms;

i. Anthocyanescence -

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ii. Blast -

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iii. Damping off -

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iv. Phyllody -

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v. Rosetting -

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c) What are the three (03) main factors essential for the occurrence of a plant disease epidemic?

- i.
- ii.
- iii.

d) Give three (03) parameters used to measure the extent of disease.

- i.
- ii.
- iii.

(26 marks)

03. Differentiate between the following.

a) Alternate hosts and alternative hosts -

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b) Biotrophs and necrotrophs -

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c) Monocyclic diseases and polycyclic diseases -

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d) Inoculation and infection -

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e) Hyperplasia and hypertrophy -

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(25 marks)

04. Give a brief account of the following indicating what they are and their significance in plant pathology.

a) Gene-for-gene hypothesis -

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b) Koch's postulates -

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c) Meristem cultures -

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d) Phytoalexins -

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e) Tyloses -

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(25 marks)

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