

THE OPEN UNIVERSITY OF SRI LANKA

B.Sc. DEGREE PROGRAMME - BOTANY - LEVEL 05 - 2010/2011

BTU3102/BTE5102 - PLANT PATHOLOGY I

ASSESSMENT TEST III (NO BOOK TEST)

DURATION : ONE (01) HOUR



Date: 10th October 2010

Time :3.00 p.m. - 4.00 p.m.

Reg. No.

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED.

01. a) Draw and fully label the fungal structure which is characteristic of most anthracnose diseases.

b) Name two (02) genera commonly known to cause anthracnose on fruits and vegetables.

i.

ii.

- c) Briefly describe the characteristic symptoms of anthracnose disease.

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(14 marks)

02. a) Why are root diseases difficult to diagnose and manage?

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- b) Name one (01) common basidiomycetous root disease affecting a plantation crop in Sri Lanka.

- i. Disease -
ii. Host -
iii. Pathogen -

- c) How does this pathogen spread?

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- d) How is this disease managed in Sri Lanka?

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(18 marks)

2

03. a) Name two (02) types of foliar mildew diseases you have studied.

- i.
- ii.

b) Give one (01) common example for each of these types of mildew diseases, giving the host and the pathogen.

Disease you mention in a) i -

Host -

Pathogen -

Disease you mention in a) ii -

Host -

Pathogen -

c) What signs and symptoms could help you to diagnose these mildew diseases?

Disease you mention in a) i -

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Disease you mention in a) ii -

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(22 marks)

5

22

04. a) What part of the plant is affected by vascular wilts?

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b) Give one (01) example of a fungal vascular wilt pathogen and its host.

Pathogen -

Host -

c) With the aid of fully labeled diagrams, illustrate how this pathogen colonizes the host tissue and disrupts the host activities.

(14 marks)

05. a) What is damping off?

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b) Name one (01) common fungal pathogen which causes damping off.

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c) Describe its mode of action.

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d) Why is damping off different from most diseases of mature plants?

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(12 marks)

06. a) What are crown galls and club roots?

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2

b) Name one (01) pathogen as causative organism for each of these diseases.

i. Crown gall –

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ii. Club root –

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c) Explain how these pathogens cause such symptoms in plants.

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(20 marks)

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