

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – BOTANY – LEVEL 05
ASSESSMENT TEST III
BOU3101/BOE5101 – PLANT PATHOLOGY
(NO BOOK TEST)
DURATION : ONE (01) HOUR



DATE : 09th October 2011

TIME: 4.00 p.m. – 5.00p.m.

Registration No.....

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED.

01. a) Name two (02) common leaf diseases of rubber in Sri Lanka. Give the causative organism/s for each of these diseases.

i. Disease –

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Causative organism –

.....

ii. Disease –

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Causative organism –

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b) Explain how you would differentiate these two diseases based on morphological symptoms.

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- c) Draw fully labeled diagrams of the spore-types which act as the inoculum for the spread of each of these diseases.

i.

ii.

(20 marks)

02. a) Name the causative organism of the fire blight of pears.

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- b) Give a brief description of the morphology of this pathogen.

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- c) How does this pathogen enter its host?

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(10 marks)

03. a) What are downy mildews?

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- b) Name one (01) economically important downy mildew disease and its causative organism.

Disease –

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Causative organism –

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- c) With the aid of a fully labeled diagram, illustrate how this pathogen colonizes within its host tissue.

(14 marks)

04. a) What is the causative organism of the tobacco mosaic disease?

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- b) Describe the nature and morphology of this pathogens.

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- c) Briefly explain how you would attempt to inoculate this pathogen to a healthy tobacco of plant.

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(08 marks)

05. a) What are rust diseases?

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b) What is the causative organism of the rust disease on wheat?

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c) Name the other host of this heteroecious rust.

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d) In which host is the uredospore stage (repeating spore) produced in this rust?

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e) Which one of the two hosts would you remove to control disease and of what importance would this be?

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(18 marks)

06. a) What are the characteristic symptoms of anthracnoses?

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b) Name one anthracnose disease on tropical fruit. Name and classify its causative organism.

Disease –

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Causative organism –

- c) Draw and fully label the asexual reproductive structures of this causative organism.

(18 marks)

07. a) What are vascular wilts?

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- b) Briefly describe how the action of vascular wilt pathogens result in the wilting of their hosts.

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- c) Name two (02) genera of pathogens which cause vascular wilts.

i.

ii.

(12 marks)

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