

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME - BOTANY - LEVEL 05-2009/2010
BTU3102/BTE5102 - PLANT PATHOLOGY I
ASSESSMENT TEST III



(NO BOOK TEST)

DURATION : ONE (01) HOUR

Date: 18th October 2009

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

Reg. No.

ANSWER ALL QUESTIONS IN THE SPACE PROVIDED.



I. (a) What are plant disease symptoms?

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(b) Name the disease and describe its diagnostic symptoms for each of the following pathological conditions:

i. *Fusarium oxysporum* on tomato

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ii. *Exobasidium vexans* on tea

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iii. *Plasmodiophora brassicae* on crucifers

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iv. *Pythium debaryanum* on mung bean seedling

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v. *Streptomyces scabies* on potato

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(30 marks)

II. (a) i. Which organism causes soft rot on carrot?

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ii. Describe its morphology with the aid of a fully labelled drawing.

(b) i. Which organism causes sheath blight on rice?

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ii. What survival structure enables this organism to overwinter unfavourable conditions?

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(c) i. Which organism causes rust disease on coffee?

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ii. Draw and label its spore type which assists in disease dispersal.

(d) i. Which organism causes late blight of potato?

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ii. With the aid of fully labelled drawings illustrate how this pathogen colonizes the mesophyll cells of the host.

(e) i. Which organism causes white root disease on rubber?

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ii. What control measures are taken to manage this disease in Sri Lanka?

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(50 marks)

III. Write short notes on the following:

(a) Anthracnoses

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(b) Role of T-DNA on the development of crown galls

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(c) Management of post-harvest rots

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(20 marks)

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