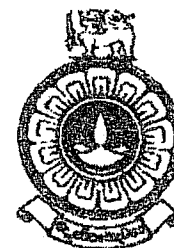


THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME - BOTANY - LEVEL 05
FINAL EXAMINATION – 2006/2007
BTU 3110 - PLANT PATHOLOGY II



DURATION : TWO AND A HALF (2 ½) HOURS

DATE : 25th June 2007

TIME : 10.00 a.m. – 12.30 p.m.

ANSWER ANY FOUR (04) OF THE FOLLOWING QUESTIONS.

ILLUSTRATE YOUR ANSWERS WITH FULLY LABELLED DIAGRAMS WHEREVER NECESSARY.

01. Write short notes on:
 - a) Soil fungistasis.
 - b) Hypersensitive response.
 - c) Systemic fungicides.
02. Giving examples, outline the different types of defence mechanisms in plants against pathogens.
03. Compare the following:
 - a) Vertical disease resistance and horizontal disease resistance.
 - b) Control of monocyclic diseases and polycyclic diseases.
 - c) Roles of toxins and enzymes in pathogenesis.
04. Write a short essay on plant breeding for disease resistance.
05. Briefly describe the following:
 - a) Methods of application of chemicals in direct control of plant diseases.
 - b) Conditions under which crop rotation can be used/cannot be used as a disease control measure.
 - c) Commercially used microbes in biological control.
06.
 - a) How are disease curves plotted and what information is revealed by these curves?
 - b) Draw two generalized disease curves for a monocyclic disease and a polycyclic disease and label the axes.
 - c) Label the three phases of the curve for the polycyclic disease and discuss the factor/s which limit the speed of increase in each phase.