

**EASTERN UNIVERSITY, SRI-LANKA**  
**FOURTH YEAR SECOND SEMESTER EXAMINATION IN SCIENCE**  
**(BOTANY)**

2004 / 2005 (~~NOV / DEC 2006~~)  
*(APRIL 2007)*

**BT-411 –ADVANCED PLANT PATHOLOGY**

Answer All Questions

Time- 3 hours

1. Write short notes on the following.
  - a) Role of auxin in plant diseases. *(10 minutes)*
  - b) Mode of penetration of pathogens in plants. *(20 minutes)*
  
3.
  - a) What do you understand by Induced Defense mechanisms in plants? *(10 minutes)*
  - b) Explain briefly the Hypersensitive Response (HR) of plants against the entry of plant pathogens. *(20 minutes)*
  
2.
  - a) What are phytoalexins? *(10 minutes)*
  - b) Explain the role of phytoalexin in disease resistance mechanisms in plants against pathogens. *(20 minutes)*
  
4. Briefly Discuss the following;
  - a) Dissemination of plant pathogens *(15 minutes)*
  - b) Growth regulators in plant diseases *(15 minutes)*
  
5. Write an essay on the Induced Structural Defense Mechanisms in plants. *(30 minutes)*
  
6.
  - a) What do you understand by “Disease Cycle”? *(07 minutes)*
  - b) Explain briefly the important events of a disease cycle. *(23 minutes)*
  
7. Write short notes on the following;
  - a) Auxins in plant disease *(8 minutes)*
  - b) Tabtoxin in plant disease. *(7 minutes)*
  - c) Breaking down of cellulose by enzymatic activity of pathogen. *(15 minutes)*

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