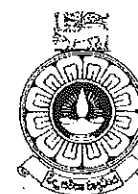


THE OPEN UNIVERSITY OF SRI LANKA  
 B.Sc. DEGREE PROGRAMME – BOTANY- LEVEL05  
 FINAL EXAMINATION – 2021/2022  
 BYU5301/BYE5301 – PLANT PATHOLOGY  
 DURATION: Two (02) HOURS



Date: 17<sup>th</sup> October 2022

Time: 9 30 a.m.- 11.30 a.m.

ANSWER ANY FOUR (04) OF THE FOLLOWING QUESTIONS.  
 ILLUSTRATE YOUR ANSWER WITH FULLY LABELED DIAGRAMS  
 WHEREVER NECESSARY.

1. Describe the morphological symptoms of the following diseases citing one (01) example for each of them

- |                 |                 |
|-----------------|-----------------|
| i) Anthracnoses | vi) Damping off |
| ii) Blights     | v) Canker       |
| iii) Wilts      | vi) Mosaics     |

2. Write a essay on effect of pathogens on host physiology.

3. (a) Name an economically important fungal leaf disease of banana (*Musa x paradisiaca*) in Sri Lanka.

(b) For the disease you mention in (a) above

- Name and classify the causative organism.
- Describe the diagnostic symptoms.
- With the aid of fully labelled diagrams briefly outline the disease cycle.
- List recommended methods of disease management.

4. Write shorts on

- Fungal rots.
- Reproductive structures in powdery mildews.
- Toxins.

5. Describe the structural and chemical barriers involved in host resistance against pathogen entry and spread.
6. Give a brief account of the **role** played by each of the following
- (a) Appressoria
  - (b) Growth regulators
  - (c) Uredospore and Teliospores of rust fungi.