

THE OPEN UNIVERSITY OF SRI LANKA
DIPLOMA IN MICROBIOLOGY - LEVEL 3
FINAL EXAMINATION – 2024/2025
BYD3312 – MICROBIAL DISEASES AND THEIR CONTROL
DURATION – TWO (02) HOURS



Date- 20.07.2025

Time – 9.30 am to 11.30 am

Answer any four (04) questions.

1. (a). Define the term 'plant diseases'.
(b). List the guidelines that you should follow in collecting plants/plant parts for diagnosing of a disease.
(c). Write a brief account on chemical control of plant diseases.
2. (a). Differentiate between the resident and transient microbiota of the human beings.
(b). List the advantages and disadvantages of microbiota inhabiting the human body.
(c). Write a brief account on viral infections in humans.
3. (a). List the major components of the human immunity system.
(b). Give three (03) main functions of the human immune system.
(c). Write a short account on different types of antibodies found in the human body.
4. (a). Briefly explain two (02) applications of microbiology in the manufacturing of pharmaceutical products.
(b). Briefly outline the three (03) main types of different sources used in antibiotic production and provide one example for each source.
5. Write short notes on any three (03) of the following.
 - (a). Signs and symptoms of plant diseases
 - (b). Plant disease triangle
 - (c). Types of innate immunity
 - (d). Nosocomial infections
6. (a). Briefly discuss how the following sources can contribute to microbial contamination in pharmaceutical products.
 - i. Water
 - ii. Personnel
 - iii. Raw materials
(b). Briefly explain two (02) sterilization techniques commonly used in pharmaceutical manufacturing.