



**THE OPEN UNIVERSITY OF SRI LANKA  
DIPLOMA IN MICROBIOLOGY - LEVEL 3  
FINAL EXAMINATION – 2023/2024  
BYD3312 – MICROBIAL DISEASES AND THEIR CONTROL  
DURATION – TWO (02) HOURS**

**Date – 23.11.2024**

**Time – 02.00 pm – 04.00 pm**

**Answer any four (04) questions.**

1. (a). Giving suitable examples, differentiate between signs and symptoms of plant diseases.  
(b). List the guidelines that you should follow when collecting plants or parts of a plant for diagnosing purposes of a disease.  
(c). Write a brief account on **four (04)** commonly used cultural practices in plant disease management.
  
2. (a). Differentiate between the resident and transient microbiota of the human beings.  
(b). What are the advantages and disadvantages of human microbiota?  
(c). Citing examples, write briefly on the occurrence and distribution of human microbiota in **any two (02)** of the following areas of the human body
  - i. Skin
  - ii. Mouth and teeth
  - iii. Intestinal tract
  
3. (a). What are infectious diseases?  
(b). List and explain in detail the **six (06)** factors involved in the transmission of pathogens from a diseased host to a new host.
  
4. (a). Briefly describe the **three (03)** main types of spoilage that can occur in pharmaceutical products.  
(b). Outline the control measures that a pharmaceutical industry should follow to avoid microbial contaminations from the following entry points.
  - i. Personnel
  - ii. Equipment and utilities
  - ii. Packing

5. Write short notes on any **three (03)** of the following.
- (a). Healthcare-associated (nosocomial) infections
  - (b). Types of food-borne illnesses in humans
  - (c). Antigens and antibodies
  - (d). Components and functions of the human immune system
6. (a). Giving at least **two (02)** examples for each product, briefly outline **three (03)** pharmaceutical products that are manufactured using microorganisms.
- (b). Write an account on each of the following.
- i. Antibiotics interfere with bacterial cell wall synthesis
  - ii. Antibiotics interfere with protein synthesis

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