

THE OPEN UNIVERSITY OF SRI LANKA
DIPLOMA IN MICROBIOLOGY - LEVEL 3
FINAL EXAMINATION – 2024/2025
BYD3301 INTRODUCTORY MICROBIOLOGY
DURATION – TWO (02) HOURS



006

Date – 12/07/2025

Time – 09.30am – 11.30am

Answer any four (04) questions.

1. a. State the differences between Eukaryotic and prokaryotic microorganisms and briefly discuss.
b. Name 2 types of Prokaryotic and 2 types of eukaryotic microorganisms.
2. a. With the aid of suitable diagrams, briefly describe how a bacterial cell divides.
b. Draw a diagram of a typical growth curve of a bacterium showing the different phases of growth and give a brief description of what takes place at each phase
3. Giving suitable examples, write an account of different types of media used in the cultivation of microorganisms.
4. a. Give a full description and diagram of the DNA molecule.
b. Write a list of the ways in which genetic variability can happen in bacteria.
5. a. What is meant by the term 'metabolism'
b. Discuss the key features of respiration.
6. Make a list of physical methods used to remove microorganisms.
b. Giving examples where possible, discuss heat as a method of controlling microorganisms