

BINDURA UNIVERSITY OF SCIENCE EDUCATION  
BIOLOGICAL SCIENCES DEPARTMENT  
MSc in Plant Pathology

**(MPP504) MICROBIAL PATHOGENESIS**

**EXAMINATION**

**3 HOURS (100 MARKS)**

**INSTRUCTIONS**

*11 NOV 2024*

Answer **TWO (2)** questions in all. You **MUST** choose **ONE QUESTION** from Section A and any other **ONE QUESTION** from **SECTION B**. Each question carries 50 marks. Where a question contains subdivisions, the mark value of each part is given in brackets. Illustrate your answer where appropriate with large clearly labelled diagrams.

**SECTION A. Choose any ONE (1) from TWO (2) questions below.**

1. Explain the impact of globalization and climate change on microbial Pathogenesis.
2. Discuss the various strategies employed by microorganisms to evade host immune responses, providing specific examples of bacterial, viral, and parasitic evasion mechanisms.

**SECTION B. Choose any ONE (1) from TWO (2) questions below.**

3. Elaborate on the evolution of pathogens and host resistance mechanisms.
4. Give a detailed account of the Human Immunodeficiency Virus (HIV): Viral Life Cycle and immune evasion.

**END OF EXAMINATION PAPER**