

BINDURA UNIVERSITY OF SCIENCE EDUCATION
BIOLOGICAL SCIENCES DEPARTMENT
MASTER OF SCIENCE IN APPLIED MICROBIOLOGY AND PLANT PATHOLOGY
(MPP512) HERBAL MEDICINAL PRODUCTS & ANTIMICROBIAL DRUG
DISCOVERY

EXAMINATION
2 HOURS (100 MARKS)

JUN 2025

INSTRUCTIONS

Answer **TWO (2)** questions in all. You **MUST** choose **ONE QUESTION** from Section A and another **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

1. Explain how you can perform a scientific investigation on a plant with known medicinal and pharmaceutical application.
2. Discuss the disadvantages and advantages of using a known source of plant material with bioactive compounds for medicinal application.

SECTION B

3. Describe the role of microbial cells as engineers and designs of medicinal and pharmaceutical products.
4. Describe the overview of the era of discovery of drugs and antibiotics.

END OF EXAMINATION PAPER