

**BINDURA UNIVERSITY OF SCIENCE EDUCATION
BIOLOGICAL SCIENCES DEPARTMENT**

BScBZH
MYCOLOGY (BZH110)

**FINAL EXAMINATION
2 HOURS (100 MARKS)**

JUN 2024

INSTRUCTIONS TO CANDIDATES

Answer FOUR questions. You MUST answer QUESTION 1 (Section A) and any THREE questions from section B. Each question carries 25 MARKS. Where a question contains sub-divisions, the mark value of each sub-division is given in brackets. Illustrate your answer where appropriate with large clearly labelled diagrams. You should not spend more than thirty minutes on each question.

Section A (Compulsory)

1. a) Describe the experimental isolation procedure of fungi from a soil sample (15 marks)
b) Describe the laboratory yeast identification methods (10 marks)

Section B

2. Describe the effects of any TWO environmental factors on the growth of fungi.
3. Outline the major characteristics that separate the kingdom Fungi from other kingdoms.
4. Describe the life cycle in the phylum Basidiomycota.
5. Write short notes on the application of mycology in the following:

(a) Food industry.	(5 marks)
(b) Crop production.	(5 marks)
(c) Biotechnology.	(5 marks)
(d) Medicine.	(5 marks)
(e) Ecology.	(5 marks)
6. Describe the characteristics of yeasts and discuss their application in alcohol production.

END OF EXAMINATION!!!