

**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.

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**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!!!**