



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: [info@must.ac.ke](mailto:info@must.ac.ke) Email: [info@must.ac.ke](mailto:info@must.ac.ke)

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## University Examinations 2022/2023

SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN BIOTECHNOLOGY

### SHD 3252: MYCOLOGY

DATE: APRIL 2023

TIME: 2 HOURS

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INSTRUCTIONS: Answer question *one* and any other *two* questions

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#### QUESTION ONE (30 MARKS)

- a) Describe the fungi cell wall architecture and its functional role (4 marks)
- b) Describe the fruiting bodies types found in Ascomycota (3 marks)
- c) Outline the key function of biological classification (3 marks)
- d) Outline the general life cycle of Chytridiomycota using labelled illustrations (6 marks)
- e) Outline the characteristics of the order Pleosporales (5 marks)
- f) Describe the microbiological diseases that can be attributed to animal pathogenic fungi (3 marks)
- g) Illustrate the life cycle of Ustilaginales (6 marks)

#### QUESTION TWO (20 MARKS)

- a) Discuss the spore shapes in fungi (10 marks)
  - b) Discuss the thallus morphology occurring in Chytridiomycota (10 marks)
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**QUESTION THREE (20 MARKS)**

Discuss the fertilization methods in Ascomycota

(20 marks)

**QUESTION FOUR (20 MARKS)**

Discuss the development of Basidia in Basidiomycota

(20 marks)