



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC**  
**HEALTH / COMMUNITY HEALTH AND DEVELOPMENT**  
**2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER 2022/2023 ACADEMIC YEAR**  
**MAIN**

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**COURSE CODE: HBB 9202**

**COURSE TITLE: MEDICAL MYCOLOGY**

**EXAM VENUE: STREAM: (BSc. P. Health / Comm Hlth & Dev)**

**DATE: EXAM SESSION:**

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section A and ANY other 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**SECTION A: ANSWER ALL QUESTIONS (30 MARKS)**

1. Briefly describe the general characteristics of fungi (3 marks)
2. Explain briefly the dimorphic nature of fungi (3 marks)
3. Differentiate between vegetative and reproductive hyphae (2 marks)
4. Briefly discuss sexual reproduction spores (5 marks)
5. Contrast the mechanisms of sporangiospore and conidiospore formation in fungi (3marks)
6. Discuss briefly four fungal virulence factors (4 marks)
7. Differentiate between true pathogenic infection and opportunistic infection. Give an example in each case (3 marks)
8. Discuss briefly three factors that can predispose one to fungal infections (3 marks)
9. Briefly discuss two methods used in laboratory diagnosis of fungi (4 marks)

**SECTION B: ANSWER QUESTION ONE (1) AND ANY OTHER QUESTION (40 MARKS)**

1. Discuss the clinical classification of fungal infections and give examples of diseases caused by them (20 marks)
2. Discuss candidiasis as an opportunistic mycosis using the following headings. (20 marks)
  - a. Causative Agent
  - b. Epidemiology
  - c. Pathogenesis
  - d. Risk factors
  - e. Prevention and Management
3. Discuss the mechanism of action of antifungal drugs (20 marks)
4. Individuals living in crowded areas such as a boarding school are at risk of acquiring cutaneous mycoses.
  - a. Discuss three likely cutaneous mycoses they are at risk of acquiring, giving the clinical manifestation of each (9 marks)
  - b. Discuss other risk factors these individuals are exposed to (4 marks)
  - c. As a public health officer/educationist, discuss the strategies you would take to prevent/control the cutaneous mycoses. (7 marks)

