



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
FOURTH YEAR FIRST SEMESTER**

**SCHOOL OF SCIENCE AND INFORMATION
SCIENCES
BACHELOR OF SCIENCE (BOTANY) AND
BACHELOR OF EDUCATION (SCIENCE)**

COURSE CODE: MIC 3108

COURSE TITLE: GENERAL MYCOLOGY

DATE: 06/12/2019

TIME: 1100-1300HRS

INSTRUCTIONS TO CANDIDATES

- Answer **All** questions in **Section A** and **ANY TWO** in **Section B**
- Illustrate your answers with suitable diagrams and give appropriate examples wherever necessary.

SECTION A: Answer All Questions (30 Marks)

1. Distinguish between: (3 marks)
 - a. Parasite and Saprophyte.
 - b. Plasmogamy and karyogamy.
 - c. Arbuscules and vesicles.
2. Describe the fungal thallus. (3marks)
3. Briefly describe asexual reproduction in fungi. (3 marks)
4. Illustrate the formation of an ascus. (3marks)
5. Describe **SIX** features of fungal spores. (3marks)
6. Draw a labeled diagram of a mushroom. (3 marks)
7. Describe the differences between the divisions *Ascomycota* and *Basidiomycota*. (3 marks)
8. Describe fungi isolation from the soil. (3 marks)
9. Outline the classification of fungal infection in humans. (3 marks)
10. Name the diseases caused by the following organisms :
 - a) *Candida albicans*. (1mk)
 - b) *Claviceps purpurea*. (1mk)
 - c) *Puccinia graminis*. (1mk)

SECTION B: Answer ANY TWO Questions (40 marks)

11. Discuss the economic importance of fungi. (20 marks)
12. Describe sexual reproduction in Ascomycetes. (20 marks)
13. Discuss the role fungi in biocontrol. (20 marks)
14. Discuss the life cycle of wheat rust (20 marks)