



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2018/2019 ACADEMIC YEAR

THIRD/FOURTH YEAR FIRST SEMESTER

EXAMINATIONS

FOR

THE DEGREE OF BACHELOR OF SCIENCE (BOTANY),

BACHELOR OF SCIENCE (ZOOLOGY) AND BACHELOR OF

EDUCATION (SCIENCE)

COURSE CODE: BOT 411/MIC 3108

COURSE TITLE: MYCOLOGY/GENERAL MYCOLOGY

DATE: 3RD DECEMBER, 2018

TIME: 1100 - 1300 HRS

Duration: 2 Hours

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 the following terms: **(3mks)**
 - a. Planospores and aplanospores. **(1mk)**
 - b. Appressoria and Haustoria. **(1mk)**
 - c. Holocarpic and eucarpic hyphae **(1mk)**
2. Explain how flagella are used in classification of the lower fungi. **(3mks)**
3. Write short note on fungal nutrition. **(3mks)**
4. Give the general characteristics of fungal spores. **(3mks)**
5. Answer the following:
 - a. Define the term biological control. **(1mk)**
 - b. Give **TWO** advantages of biological control. **(1mk)**
 - c. Give an example of a fungus used as a biological control agent. **(1mk)**
6. Describe briefly **THREE** (3) control measures that can be under taken to reduce plant fungal pathogens. **(3mks)**
7. List the diagnostic features of the Division **Glomeromycota**. **(3mks)**
8. Describe briefly isolation of fungi from an infected plant. **(3mks)**
9. Briefly explain superficial mycoses. **(3mks)**
10. Name the diseases caused by the following fungal pathogens: **(3mks)**
 - a. *Erysiphe graminis*
 - b. *Phytophthora infestans*
 - c. *Candida albicans*

SECTION B: Answer ANY TWO Questions (40 marks)

11. Describe the fungal hyphae and its modification. **(20 mks)**
12. Describe the life cycle and economic importance of *Claviceps purpurea*. **(20mks)**
13. Give an account of the general classification of fungi and provide important characteristics of the divisions. **(20mks)**
14. Citing examples, describe sexual reproduction in fungi. **(20 mks)**

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