



UNIVERSITY EXAMINATIONS

SECOND SEMESTER 2023/2024 ACADEMIC YEAR

**SECOND YEAR EXAMINATION FOR THE DEGREES OF
BACHELOR OF EDUCATION (SCIENCE) AND
BACHELOR OF SCIENCE (GENERAL)**

BOTA 221: MYCOLOGY

STREAM: *Bed (Science & Bsc General)*

TIME: *2 HRS*

DAY: *THURSDAY [2.30PM -4.30PM]*

DATE: *11/04/2024*

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS: Answer All Questions in Section A and TWO from Section B.**SECTION A : (40 MARKS). - Answer ALL questions in this section****QUESTION ONE**

Using diagrams where necessary, describe the following terms.

(4 Marks)

- a) Dimorphism
- b) Coenocytic hyphae
- c) Tinsel type of flagella
- d) Arthrospores

QUESTION TWO

Briefly discuss any **five** basic types of life cycles in fungi

(5 Marks)**QUESTION THREE**

Name **two** types of associations that fungi show with other groups of plants and state the ecological importance of each of the associations.

(5 Marks)**QUESTION FOUR**

a) Describe **two** key characteristics of fungi in the subdivision *Zygomycotina* and give classes to which this sub-division is divided

(2 Marks)

b) State the economic importance of the fungi in the Order *Mucorales*.

(3 Marks)**QUESTION FIVE**

List any **five** criteria used in the classification of fungi.

(5 Marks)

Using appropriate diagrams, describe the sexual fruiting bodies formed by fungi in the Class: *Ascomycetes*.

(10 Marks)

Briefly describe three types of thallus found in class *Basidiomycetes*

(6 Marks)

SECTION B: (30 MARKS)

QUESTION EIGHT

Discuss the mode of Nutrition in true Fungi.

(15 Marks)

QUESTION NINE

Discuss the role played by fungi in food production.

(15 Marks)

QUESTION TEN

Describe the various modes of asexual reproduction in fungi

(15 Marks)

