

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF
DEGREE OF BACHELOR OF SCIENCE, BACHELOR OF EDUCATION (SCIENCE)**

BOTA 233: MYCOLOGY

STREAMS: Y2S2

TIME: 2 HOURS

DAY/DATE: TUESDAY 6 /07/ 2021

8.30 AM – 10.30 AM

INSTRUCTIONS:

- Answer ALL Questions in Section A and any Two in Section B.
- Do not write anything on the question paper
- Use illustrations where appropriate to enhance your answer

SECTION (30 Marks)

1. Define the following terms as applied in mycology. [5 Marks]
 - (a) Haustorium
 - (b) Mycorrhizal fungus
 - (c) Dimorphism
 - (d) Rhizoids
 - (e) Fungi imperfecti
2. (a) Differentiate between Eucarpic and holocarpic thallus. [2 Marks]
(b) Using illustrations, describe the structure of appressorium. [3 Marks]
3. Outline various characteristics of fungi. [5 Marks]
4. Discuss the effect of mycotoxins in human. [5 Marks]
5. Describe different types of ascocarps [5 Marks]
6. State steps involved in recombinant DNA technology in fungi. [5 Marks]

SECTION B (40 MARKS)

7. a) Discuss different types of opportunistic mycoses. [10 Marks]
- b) Discuss intervention methods that can be used to control and prevent fungal infections. [10 Marks]
8. a) Discuss various methods that fungi employ to bring the compatible nuclei together for fusion. [10 Marks]
- b) Describe the sequence of events in a complete parasexual cycle in fungi. [10 Marks]
9. Discuss the economic importance of fungi. [20 Marks]
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