

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

BOTA 233: MYCOLOGY

STREAMS:

TIME: 2 HOURS

DAY/DATE: FRIDAY 12/04/2019

8.30 A.M – 10.30 A.M

INSTRUCTIONS

- Answer all questions in section A and any other TWO in section B
- Do not write anything on the question paper

SECTION A (ANSWER ALL QUESTIONS)

1. Describe three methods used in the laboratory to maintain the fungal culture. [6 marks]
2. Explain the following:
 - (a) Haustorium [2 marks]
 - (b) Flagella [2 marks]
 - (c) Septa [2 marks]
3. Discuss the similarities between the phylum Ascomycota and Basidiomycota. [6 marks]
4. Define the following terms used in mycology.
 - (a) Saprobic heterotrophs [2 marks]
 - (b) Gametangial copulation [2 marks]
 - (c) Anastomosis [2 marks]
5. Describe the major characteristics that mycologists use to distinguish fungi from other organisms. [6 marks]

SECTION B (ANSWER ANY TWO QUESTIONS)

6. (a) Discuss the criteria used to classify fungi into different phylums. Give examples.

[10 marks]

- (b) Describe the characteristics of the phylum Deuteromycota. [10 marks]
7. Giving examples, discuss the economic importance of fungi. [20 marks]
8. Fungi colonize most habitats on earth.
- (a) Discuss the factors that favor fungi habitation. [5 marks]
- (b) With examples, discuss the fungal symbiosis. [15 marks]
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