BOTA 233

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BOTANY

BOTA 233: MYCOLOGY

STREAMS: BSC (BOTA)

TIME: 2 HOURS

2.30 P.M. – 4.30 P.M.

[5 marks]

DAY/DATE: WEDNESDAY 15/04/2020

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 A (30 MARKS)

- 1. Define the following terms as applied in mycology
 - (a) Haustorium
 - (b) Mycorrhizal fungus
 - (c) Dimorphism
 - (d) Rhizoids
 - (e) Fungi imperfecti
- 2. Differentiate between Eucarpi and holocarpithallus [2 marks]
- 3.Outline various characteristics of fungi[5 marks]
- 4. Give four instances that may result to heterokaryosis in fungi [5 marks]
- 5.Describe briefly different types of ascocarps[4 marks]
- 6. Outline steps involved in recombinant DNA technology in fungi [5 marks]
- 7. Using illustrations, describe the structure of appressorium [4 marks]

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SECTION B (40 MARKS)

8.	(a)	Discuss different types of opportunistic mycoses	[10 marks]	
	(b)	Outline intervention methods that can be used to control and preve	ent fungal	
		infections	[10 marks]	
9.	(a)	Discuss various methods that fungi employ to bring the compatible nuclei		
		together for fusion	[10 marks]	
	(b)	Give an account on the sequence of events in a complete parasex	ual cycle in	
		fungi	[10 marks]	
10.	Discuss the economic importance of fungi in the environment [20 ma		[20 marks]	
