

## **MAASAI MARA UNIVERSITY**

## REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR FOURTH YEAR END OF SECOND SEMESTER

## SCHOOL OF SCIENCE AND INFORMATION SCIENCES BACHELOR OF SCIENCE

COURSE CODE: BOT 419
COURSE TITLE: MICROBIOLOGY II

DATE: 18<sup>TH</sup> APRIL, 2019 TIME: 1100 – 1300HRS

## **INSTRUCTIONS TO CANDIDATES**

- a) Answer ALL questions in Section A and ANY two in SECTION B
- b) Illustrate your answers with suitable diagrams and give examples wherever necessary.

This paper consists of 2 printed papers. Please turn over.

<u>Answer</u>	ALL	<b>Ouestions</b>	in	<b>Section A</b>

Miswel All Questions in Section A	
1. Explain the properties of micro flora organisms that enable ther	n to survive
in /on their hosts	(3 marks)
2 Explain the environmental effects of pathogen on plants	(3 marks)
3 Outline Rizosphere organism that is deleterious to plant growth	and
health	(3 marks)
4 Describe one media used for culturing of fungi and state its impo	ortance
	(3 marks)
5 Describe three major factors that determine decomposition of or	rganic
matter	(3 marks)
6 Describe some factors that determine the functions of a healthy	soil
	(3 marks)
7 Describe the role of micro- organisms in soil decomposition	(3 marks)
8 Describe necrosis and mildew symptoms in plants	(3 marks)
9 Compare and contrast the symbiotic and non-symbiotic nitroger	ı fixation
	(3 marks)
10 Explain how salinity and acidity control the activity of soil biota	a (3 marks)
SECTION B: Answer Any Two Questions Each Question carries	20 marks
11 Discuss the human interventions that influences soil organic m	
environment	(20 marks)
12 Discuss how you can increase/decrease the rate of soil decomp	,
an ecosystem	(20 marks)
13 Explain symbiotic and non-symbiotic relationships in nitrogen	•
13 Explain 39 molotic and non-39 molotic relationships in merogen	(20 marks)
14. Discuss the identification and control of the major plant diseas	,
African countries	(20 marks)
THE TOUR COURT TO	(20 marks)
/ /TIME	

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