CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

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

MICB 220: MICROBIAL ECOLOGY

STREAMS: TIME: 2 HOURS

DAY/DATE: THURSDAY 7/12/2017 11.30 A.M - 1.30 P.M.

INSTRUCTIONS:

• Answer all Questions in Section A and any TWO in Section B

SECTION A: [30 MARKS] 1. Describe the formation of

1.	Describe the formation of a biofilm.	[5 Marks]
2.	Outline the role of microbes in biogeochemical cycles.	[5 Marks]
3.	(a) Describe the methods of culturing microbes.	[5 Marks]
	(b) Give 5 reasons why some microorganisms cannot be cultured in the laboratory	7. [5 Marks]
4.	Classify soil microbes and their importance.	[5 Marks]
5.	Discuss microbial adaptation to extreme environment.	[5 Marks]
SECTION B: [40 MARKS]		
6.	Discuss the factors that influence microbial growth.	[20 Marks]
7.	Discus microbial interactions with each other and the environment.	[20 Marks]
8.	(a) Using a diagram, compare the phases of microbial growth.(b) Discuss the methods of measuring bacterial growth.	[10 Marks] [10 Marks]