CHUKA



UNIVERSITY

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EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION

BOTA 00225: GENERAL MICROBIOLOGY

STREAMS: CERT (ANHE)

TIME: 2 HOURS

8.30 AM - 10.30 AM

DAY/DATE: FRIDAY 19/12/2014 INSTRUCTIONS:

SECTION A – 30 MARKS

1.	(a)	Draw a labeled diagram of a bacterium cell	[3 marks]
	(b)	Identify two common methods of staining bacteria for observation identification	n and [2 marks]
2.	(a)	Give three forms of spherical bacteria	[3 marks]
	(b)	Name the bacteria widely used as an indicator organism in sanity water.	analysis of [2 marks]
3.	(a)	State three physical agents of microbial control	[3 marks]
	(b)	State two benefits of microorganisms in agriculture.	[2 marks]
4.	(a)	List the common methods of culturing microorganisms in the laboratory. [3 marks]	
	(b)	Name two beverages obtained through microbial activity.	[2 marks]
5.	List the general phases in the lifecycle of animal viruses. [5 marks]		
6.	(a)	List four examples of fungal asexual spores	[2 marks]
	(b)	Name the classes of protozoans based on locomotion.	[2 marks]

	(c)	Draw the structure of a naked virus.	[1 mark]			
SECTION B – 40 MARKS (ANSWER TWO QUESTIONS)						
7.	Discu	ss the chemical agents of microbial control.	[20 marks]			
8.	Discuss the following livestock diseases, identifying the cause, mode of transmission, symptoms and control measures					
	(i)	Newcastle disease	[10 marks]			
	(ii)	Animal Trypanosomiasis	[10 marks]			
9.	Descr	ibe the applications of microbiology in modern day.	[20 marks]			