

## **Technical University of Mombasa**

## Faculty of Applied and Health Sciences DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES

CERTIFICATE IN COMMUNITY HEALTH AND HIV MANAGEMENT (CCH 13M)

**AAB 1105: GENERAL MICROBIOLOGY** 

**SPECIAL/SUPPLEMENTARY: EXAMINATIONS** 

SERIES: JULY 2014

TIME: 2 HOURS

## **INSTRUCTIONS:**

You should have the following for this paper

- Answer booklet
This paper consists of FIVE questions.
Answer Question ONE (compulsory) and any other TWO question ns
This paper consists of 2 PRINTED pages

## **Question ONE**

	State any FOUR factors that determine disease development in a cost	(4marks)
,	Outline Koch's postulates (experimental steps to establish the microbe that cause a disease)	(4marks)
d)	Explain the following terminologies  (i) Infectious dose  (ii) Systemic infection  (iii) Local Infection  (iv) Iyophilization  (v) Virulence  Explain any two general properties of antibacterial agents.  Briefly describe the role of the normal microbiota of the common body.	(2marks) (2marks) (2marks) (2marks) (2marks) (4marks) (6marks)
,	Differentiate between acidic dyes and basic dyes.	(2marks)
Question TWO		
a)	Describe the mode of action of antibacterial agents	(10marks)
b)	Explain any FIVE factors that may promote urinary tract infection during hospitalization.	(5marks)
Question THREE		
	Describe the general mechanism of pathogenesis (disease development) State any THREE characteristics of molds	(12marks) (3marks)
Question FOUR		
	Describe the components of the proteryotic cell structure Explain the nutritional requirements for microorganisms	(6marks) (9marks)
Question FIVE		
	State and describe any FOUR clinical entities of dematophytes and their sites of infection.  Explain any THREE factors that favour the spread of fungal diseases.	(12marks) (3marks)