#### TECHNICAL UNIVERSITY OF MOMBASA UNIVERSITY **UNIVERSITY EXAMINATIONS 2015/2016** FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY HEALTH

**Time: 2 Hours AAB 4106: GENERAL MICROBIOLOGY** 

#### SUPPLEMENTARY/SPECIAL EXAMINATION **SERIES MAY 2016**

#### **INSTRUCTIONS**

• Answer question ONE [compulsory] and any TWO questions

Quest	ion ON	Œ				
(a)	Distin	(4 marks)				
(b)	State the characteristics of a viral particle			(4 marks)		
(c)	Define each of the following terms.  (i) Capsid			(4 marks)		
	(ii)	Nuclei Capsid				
	(iii)	Capsomeres				
	(iv)	Virion				
(d)	Explain the meaning of the term sterilization (4 marks)					
(e)	State Four economic importance of fungi (4 marks)					
(f)	Differentiate between psychrophile and mesophile organisms (2 marks)					
(g)	Describe the term 'Koch postulates'. (4 marks)					
(h)	Differentiate between the following terms:					
	(i)	Bacteriostatic and bactericidal		(2 marks)		
	(ii)	Disinfectant and Anti-septic		(2 marks)		

# **Question TWO**

With a well labelled diagram of a bacterial cell, explain the functions of the labelled parts [20 marks]

# **Question THREE**

Discuss the safety precautions expected in a microbiology laboratory

(20 marks)

# **Question FOUR**

- (a) "Viruses are the ultimate parasite and are totally dependent on a host cell to replicate". Discuss how the process of replication occurs in the human body. (14 marks)
- (b) Explain various ways in which infections may be acquired in the laboratory (6 mark)

#### **Question FIVE**

Discuss the growth of bacteria in the static environment.

(20 marks)