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

AAB 4106: GENERAL MICROBIOLOGY Time: 2 Hours

SUPPLEMENTARY/SPECIAL EXAMINATION **SERIES MAY 2016**

INSTRUCTIONS

• Answer question ONE [compulsory] and any TWO questions

Question ONE							
(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)	Explai	in the meaning of the term sterilization	narks)				
(e)	State Four economic importance of fungi (4 marks)						
(f)	Differentiate between psychrophile and mesophile organisms (2 marks)						
(g)	Descri	ach of the following terms. (4 marks) apsid uclei Capsid apsomeres irion the meaning of the term sterilization (4 marks) r economic importance of fungi (4 marks) iate between psychrophile and mesophile organisms (2 marks) the term 'Koch postulates'. (4 marks) iate between the following terms: acteriostatic and bactericidal (2 marks)					
(h)	Differ						
	(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)