

Technical University of Mombasa

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

DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT (DCH13S)

AAB 2105 : GENERAL MICROBIOLOGY

SUPPLEMENTARY/SPECIAL: EXAMINATIONS

SERIES: MARCH 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** questions

Question ONE

 (a) Define the following terminologies (i) Binormal nomenclature (ii) Infection (iii) Commensals (iv) Antibiotic (v) Sterilization (vi) Strain (b) Differentiate the following: (i) Gram positive and gram negative bacteria (ii) Aerobes and anaerobes (c) Outline the morphological classification of fungi (d) State FIVE uses of disinfectants (e) Outline methods of isolating a pure culture (f) Explain the difference between pathogenicity and virulence (g) State the difference between exotoxins and endotoxins Question TWO	(1 mark) (1 mark) (1 mark) (1 mark) (1 mark) (1 mark) (5 marks) (2 marks) (4 marks) (5 marks) (4 marks) (2 marks) (2 marks) (2 marks)
a) Outline the purpose of culturing microorganismsb) Describe the streak method or microbial culture	(7 marks) (8 marks)
Question THREE	
a) Discuss physical methods of sterilizationb) Outline ways of testing disinfectants	(11 marks) (4 marks)
Question FOUR	
 a) Describe the procedure in handling clinical samples b) Discuss the precautions taken while collecting samples from a patient suspected infection 	(10 marks) to have aerobic (5 marks)
Question FIVE	
Discuss the microbial growth curve	(15 marks)