TECHNICAL UNIVERSITY OF MOMBASA FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH AND HIV MANAGEMENT AND DIPLOMA IN NUTRITION AND DIETETICS.

DCHM AND DND 16S/YEAR1/ SEMESTER1

AAB 2104: GENERAL MICROBIOLOGY

SEMESTER EXAMINATION

SERIES: DECEMBER 2016

TIME: 2 HOURS

Instructions to Candidates

This paper consists of **FIVE (5)** questions

Answer question ONE (COMPULSORY) and any other TWO questions.

This paper consists of four printed pages.

Question 1. (30 Marks)

- a) Define; (2 Marks each)
 - i). Viable count
 - ii). Disinfection
- b). Differentiate between a species and a strain. (2 Marks)
- c). Describe the colour (in a Gram stained smear) of Gram positive and Gram negative bacteria, respectively. (2 Marks).
- d). List the possible shapes of bacteria. Write one example for each category. (4 Marks)
- e). Mention 5 groups of disinfectants. (5 Marks)
- f). Define sterilization and mention 3 reliable methods of sterilization. (4 Marks)
- g). Classify bacteria based oxygen requirements. (2 Marks)

- h). Mention 2 species causing opportunistic fungal infections. (1 Marks)
- i). Mention 2 DNA virus families containing envelope. (2 Marks)
- j). Briefly explain the Four Kochi's Postulates (4 Marks)

Question 2 (15 Marks)

Discuss the possible transmission ways of infections.

Question 3 (15 Marks)

Discuss the beneficial application of microbiology.

Question 4 (15 Marks)

Discuss the economic importance of bacteria with examples.

Question 5 (15 Marks)

Discuss the physical properties of viruses