



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2010/2011
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE

SBT 331: MEDICAL BACTERIOLOGY

DATE: Tuesday, 23rd November, 2010

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS:

Answer **ALL** questions in Section A and **ONE** in Section B. Answers in Section A should be concise and should be written in the spaces provided on the question paper.

SECTION A: Short answer questions (5 marks each – Total 40 marks)

1. Define the following terms:

a) Pathogenicity

b) Virulence

c) Invasiveness

d) Receptor

e) Bacterial colonization

2. Discuss the factors that influence zones of inhibition in drug susceptibility testing.

3. Describe the mechanisms of *Vibrio* enterotoxins.

4. What are some of the factors that contribute to bacterial pathogenicity?

5. Describe urinalysis in suspected cases of UTI.

7. Describe isolation and identification of *Nisseria gonorohea* in suspected cases of STDs.

8. Describe how you could diagnose respiratory causing pathogens.

SECTION B: Answer any **ONE** question (30 marks)

1. Bacterial host interactions
2. Mechanisms of antimicrobial action and resistance mechanism
3. Isolation and cultivation of Bacterial enterpathogens