



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN MICROBIOLOGY
SBT 329 : MICROBIAL ECOLOGY

DATE: WEDNESDAY 4TH APRIL 2012

TIME: 4.30 P.M. – 6.30 P.M.

INSTRUCTIONS

Answer ALL questions in section A in the spaces provided after each question.

Answer only ONE question from Section B

SECTION A

1. Define the following terminologies

a) Piezophile (Barophile)

b) Psychrophile

c) Thermophile

d) Toxiterant

e) Xerophile

4. Outline the industrial applications of alkaliphilic enzymes.

7. List the importance of the normal flora on and in the human body.

8. Briefly explain the principle of population ecology. (5 marks)

SECTION B (30 MARKS)

Answer only ONE question from this section.

1. Discuss the physical requirements of microbial growth.
2. Discuss positive interactions within microbial populations.
3. Discuss the importance of microbial ecology.