



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2010/2011

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN MICROBIOLOGY**

SBT 326: AGRICULTURAL MICROBIOLOGY

DATE: MONDAY, 22ND NOVEMBER 2010

TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS: Answer ALL questions in section A and any other ONE question from section B.

SECTION A: 40 MARKS (5 MARKS EACH)

1. Briefly describe the use of microorganisms in bioremediation.

2. State five properties of a fertile soil?

3. List five specific pathogenicity factors for plant pathogenic bacteria?

4. Briefly describe the involvement of microorganisms in soil formation.

5. Briefly describe TWO significant fungal plant pathogens.
6. What are some of the effects of pesticides on soil microbiological aspects.
7. Explain five strategies for successful bioremediation.
8. Briefly describe two types of soil that are good for agriculture.

SECTION B: 30 MARKS

1. Discuss the microbial community of the soil ecosystem.
2. Discuss microbial control of insect pests.
3. Discuss the use of microorganisms in agricultural waste management.
