

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2015/2016**

**YEAR I SEMESTER I EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY**

**SBT 2170: MICROBIAL DIVERSTIY**

**DATE:DECEMBER 2015 TIME: 2 HOURS**

**SECTION A : Answer all questions (30 MARKS)**

**QUESTION ONE**

a. Explain the History of microorganisms. (3 marks)

b. Explain the following terms

 i. Prokaryotes

 ii. Eukaryotes. (3 marks)

c. Describe the general characteristics of viruses. (3 marks)

d. Highlight the economic importance of fungi. (3 marks)

e. Explain the characteristics of gram positive and gram negative cell wall. (3 marks)

f. Draw the structure of a bacterial cell. (3 marks)

g. Describe the characteristics of Gyanobacteria. (3 marks)

h. Explain the uses of algae. (3 marks)

i. Describe the bacterial life cycle. (3 marks)

j. Highlight the differences between a bacteria and a virus. (3 marks)

SECTION B ANSWER ANY TWO QUESTIONS. (40 MARKS)

QUESTION TWO

Discuss spontaneous generation. (20 marks)

QUESTION THREE

Discuss the classification of viruses. (20 marks)