

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

## JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS 2017/2018**

**YEAR 3 SEMESTER 1 EXAMINATIONS**

**MMB 2378: INTRODUCTION TO BACTERIAL SYSTEMATICS**

**DATE: JANUARY 2018 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS**

QUESTION ONE (30 MARKS)

ai) Define classification (1 mark)

ii) Describe various classification criteria of a bacteria (5 marks)

bi) Define a pure culture (1 mark)

ii) Briefly describe how to isolate a pure culture (5 marks)

c) State the role of nomenclature in systematic (6 marks)

d) Briefly describe artificial classification (6 marks)

e) Describe the phage typing techniques (6 marks)

QUESTION TWO (20 MARKS)

Discuss the recent advances and future trends in bacterial systematic.

QUESTION THREE (20 MARKS)

a) State Koch’s postulates (4 marks)

b) Discuss its impact on bacterial systematic (16 marks)

QUESTION FOUR (20 MARKS)

Discuss the various methods used in chemotaxonomy.