



KENYATTA UNIVERSITY
CITY CAMPUS

UNIVERSITY EXAMINATIONS 2017/2018

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
MASTER OF SCIENCE (MICROBIOLOGY)**

SMB 801: ADVANCED BACTERIOLOGY

DATE: Friday, 2nd February, 2018

TIME: 5.30 p.m. - 8.30 p.m.

INSTRUCTIONS:

Answer any FOUR Questions (25 marks each)

1. Discuss the nucleoid and bacterial cell appendages.
2. Describe the mechanisms of action of β -lactam drugs and the sulfonamides.
3. Describe the methods used to detect recombinant DNA once transformation has taken place.
4. Explain the use of phenotypic characteristics in identifying bacteria.
5. Using specific examples, discuss competition in bacterial populations.