

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

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

**MMB 2400: MEDICAL BACTERIOLOGY II**

**DATE: DECEMBER, 2019 TIME: 2 HOURS**

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

**QUESTION ONE: 30 MARKS**

a. Differentiate between Endotoxins and Exotoxins. (6 marks)

b. Describe the significance of Attachment/Adherence in Bacteria

pathogencity. (4 marks)

c. Describe the normal flora and function in the Gastrointestinal tract (GIT) (5 marks)

d. Describe the composition and function of lipopolys acchavide layer.

 (5 marks)

e. Describe cooporation/protocorportion relationship in bacteria. (5 marks)

f. Describe prevention and control of the common tropical bacterial diseases. (5 marks)

**QUESTION TWO: 20 MARKS**

Discuss bacteria invasive mechanisms.

**QUESTION THREE: 20 MARKS**

Discuss expression and regulation of bacterial villent genes in a host environment.

**QUESTION FOUR: 20 MARKS**

Discuss host defenses mechanisms against bacterial pathogens.