



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS
FOR
BACHELOR OF SCIENCE (BOTANY) AND BACHELOR OF
SCIENCE (ZOOLOGY)**

COURSE CODE: EBH 3227

COURSE TITLE: MEDICAL MICROBIOLOGY

DATE: 16/12/2019

TIME: 1100 - 1300HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions in **Section A** and any other **TWO** questions in **Section B**

SECTION A: ANSWER ALL QUESTIONS (30MARKS)

1. Define the following terms as used in medical microbiology: **(3marks)**
 - a. Bacteremia
 - b. Virulence
 - c. Contagious diseases
2. Differentiate between endotoxin and exotoxin **(3mk)**
3. Outline three stages of inflammation **(3mks)**
4. List three ways of indirect transmission of pathogen **(3mks)**
5. With examples distinguish between mutualism and parasitism **(3mks)**
6. State three Koch postulates as used in microbiology **(3mks)**
7. Explain factors to be considered when selecting and initiating antimicrobial regimen **(3mk)**
8. Briefly describe phagocyte and phagocytosis **(3mks)**
9. Differentiate between selective media and differential media **(3mks)**
10. List epidemiological clues which might suggest a bioterrorism event **(3mks)**

SECTION B: ANSWER ANY OTHER TWO QUESTIONS (40 MARKS)

11. Discuss how travelers can minimize risks to infectious diseases **(20mks)**
12. Describe the steps involved of microbial pathogenicity **(20mks)**
13. Explain some of the contributing factor for emerging infectious disease **(20mks)**
14. With illustration, describe phases of bacteria growth **(20mks)**

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