



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE**  
**DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY HEALTH AND**  
**DEVELOPMENT**  
**SECOND SEMESTER, 2021/2022**  
**(FEBRUARY - JUNE, 2022)**

**MEDS 114: PATHOGENIC MICROBIOLOGY**

**STREAM: Y1 S2**

**TIME: 3 HOURS**

**DAY: MONDAY, 2:00 – 5:00 P.M.**

**DATE: 16/05/2022**

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**INSTRUCTIONS**

- 1. Do not write anything on this question paper.*
- 2. Answer ALL the questions in section A and any TWO questions in B.*

**SECTION A: 40 MARKS**

1. Describe the various characteristics of pathogenic bacteria. [4 Marks]
2. Explain the Koch's postulates. [4 Marks]
3. Describe the various ways that we can control the transmission of infectious disease. [4 Marks]
4. Describe Mycotoxin and various types of mycotoxins. [4 Marks]
5. Describe the various Classification of Fungal Infections (mycoses) with examples. [4 Marks]
6. Explain the laboratory diagnosis of bacterial skin infections. [4 Marks]
7. Describe the various types, and procedures of ELISA test.
8. Explain the morphological difference between Staphylococcus and Streptococcus [4 Marks]
9. Describe the importance of antimicrobial susceptibility test. [4 Marks]
10. Explain the importance of determining the Minimum Inhibitory Concentration of a drug.

[4 Marks]

**SECTION B: 30 MARKS**

11. Discuss the various gram positive and gram negative infections.  
[15 Marks]

12. Discuss Archaeobacteria.

[15Mark]

13. Discuss the characteristics of Mycoplasma and the various most common

Mycoplasma species that cause disease.

[15 Marks]