



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

**SECOND YEAR EXAMINATION FOR THE AWARD OF**  
**THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH**  
**FIRST SEMESTER 2018/2019**  
**(JANUARY - APRIL, 2019)**

**PHES 200: MICROBIOLOGY**

**STREAM: Y2S1**

**TIME: 3 HOURS**

**DAY: FRIDAY, 2:00 PM – 5:00 PM**

**DATE: 29/03/2019**

**INSTRUCTIONS**

- 1. Do not write anything on this question paper.*
- 2. Answer ALL Questions In Section A And Any Other TWO Question In Section B.*

**SECTION A:**

**Answer All Questions. Each Question Carries 5 Marks**

1. Show the various ways in which cocci can be arranged.
2. Write an essay about bacterial spores
3. Describe a gram positive cell wall.
4. Explain the various ways flagella can be arranged on a bacterial cell.
5. Explain the classification of bacteria in accordance to energy source
6. Explain recombination in viruses
7. Draw a well labeled structure of a bacterial phage.
8. List any five characteristics of viruses

**SECTION B: Answer Any Two Questions.**

**Each Question Carries 15 Marks**

9. Explain the effect of various factors on bacterial growth
10. Describe heat as a method of sterilization
11. Describe the process of viral replication
12. Describe the prevention, control and eradication of bacterial diseases.

Ques...  
Ans...  
Ans...