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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY**

**SBT 2273: PREVENTION AND CONTROL OF INFECTIOUS DISEASES**

**DATE: OCTOBER, 2020 TIME: 2 HOURS**

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

**QUESTION ONE: 30 MARKS**

a. Briefly discuss five strategies for controlling an epidemic. (5 marks)

b. Outline five characteristic of an ideal disinfectant. (5 marks)

c. Outline the difference between a bacteriostatic and a bactericidal agent.

(6 marks)

d. Explain the meaning of a structural analogue. (4 marks)

e. Outline the modes of action of antifungal drugs. (6 marks)

f. Briefly discuss pasteurization. (4 marks)

**QUESTION TWO; 20 MARKS**

Discuss the sulphonamides.

**QUESTION THREE: 20 MARKS**

Discuss antibiotic resistance mechanisms.

**QUESTION FOUR: 20 MARKS**

Discuss techniques for determining the efficicacy of a newly developed antibiotic against *Staphylococcus aureus.*