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

## JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

**UNIVERSITY EXAMINATIONS 2020/2021**

**YEAR 3 SEMESTER 2 EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY**

**SBT 2372: EPIDEMIOLOGY**

**DATE: MAY 2021 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) 48 MARKS AND ANY OTHER ONE QUESTION (22 MARKS)**

1i) Briefly discuss the risk factors for disease occurrence (6 marks)

ii) Explain the natural history of disease and its different stages (6 marks)

iii) Outline components of the infectious process as a chain of disease transmission (6 marks)

iv) Highlight the differences between ratio proportion and rate (6 marks)

v) Explain the importance of epidemiology (6 marks)

vi) Describe methods of data collection as sources of health information (6 marks)

vii) Briefly discuss the management of an epidemic (6 marks)

2) Describe the levels of disease prevention (22 marks)

3) Discuss the major variables in descriptive epidemiology (22 marks)

4) Describe the steps in investigation of an epidemic (22 marks)