

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

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

# University Examinations 2016/2017

**EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY-ZOOLOGY**

**SZL 2411: EPIDEMIOLOGY**

**DATE: June 2017 TIME: 2 HOURS**

**Instructions: Answer Question One (Compulsory) and Any Other Two Questions.**

**QUESTION ONE (30 MARKS)**

1. Describe briefly types of epidemics. (6marks)
2. Discuss briefly the main elements of descriptive epidemiology. (6marks)
3. i. Explain the features of a good surveillance system. (3marks)

ii. State the advantages and disadvantages of a passive surveillance system (3marks)

1. Describe the three epidemiological measures of disease frequency. (6marks)
2. Outline the factors considered when interpreting the geographical distribution of disease. (6marks)

**QUESTION TWO (20 MARKS)**

Describe in detail the steps involved in the investigation and management of an epidemic. (20marks)

**QUESTION THREE (20 MARKS)**

Outline a comprehensive programme that can be used for the prevention of tuberculosis infection based on the four levels of disease prevention. (20marks)

**QUESTION FOUR (20 MARKS)**

Describe the stages involved in the health planning process. (20marks)

**QUESTION FIVE (20 MARKS)**

Discuss the study designs commonly used in epidemiology. (20marks)