

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNITY HEALTH**

**ICH 2206: EPIDEMIOLOGY**

**DATE: DECEMBER, 2019 TIME: 2 HOURS**

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

**QUESTION ONE: 48 MARKS**

a. Explain the term epidemiology. Explain its three applications. (6 marks)

b. ‘Disease does not occur randomly’. Explain giving examples. (6 marks)

c. Explain the four stages in the natural history of disease. (6 marks)

d. Explain the following terms as used in epidemiology. (6 marks)

i. Antigen

ii. Host

iii. Endemic

e. Using examples, differentiate between validity and reliability of a diagnostic test. (6 marks)

f. Discuss the term ‘Descriptive Epidemiology’. (6 marks)

g. Discuss the advantages of disease surveillance. (6 marks)

h. Explain the three levels of disease prevention. (6 marks)

**QUESTION TWO: 22 MARKS**

Describe the ten steps of disease outbreak investigation.

**QUESTION THREE: 22 MARKS**

Describe the various sources of data on health and health related conditions. What

are the methods of data collection?

**QUESTION FOUR: 22 MARKS**

Discuss the ethical and professional issues in epidemiology.