JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
BUSIA CAMPUS
FIRST YEAR FIRST SEMESTER EXAMS
HCD 2122: INTRODUCTION TO EPIDEMIOLOGY

SECTION A: Answer ALL questions in this section (3 Marks each).

1. Define the termepidemiology.

2. List three methods of collecting epidemiological data.

3. List the levels of disease prevention.

4. Define the following epidemiological terms.

   a. Sensitivity.
   b. Specificity.
   c. Negative and positive predictive value.

5. Briefly discuss descriptive epidemiology.

6. List the features of a good epidemiological surveillance system.

7. List the sources of pharmacoepidemiological data.

8. Giving examples, describe nosocomial infections.

9. List three differences between a prospective and retrospective study.

10. Briefly describe the main types of bias.

SECTION B

Answer any TWO questions from this section (15 marks each)

1. a).Discuss the epidemiological triad.

   b).Define the following terms:
      i. Epidemic.
      ii. Endemic.
      iii. Pandemic.
2. Discuss the key concepts in the chain of infection.

3. Discuss the factors involved in the emergence and re-emergence of infectious diseases.

4. a)Briefly discuss the levels of disease occurrence

   b) Discuss the occurrence of epidemics in a population.