JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH

1ST YEAR 2ND SEMESTER 2018/2019 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE: HDC 2122

COURSE TITLE: INTRODUCTION TO EPIDEMIOLOGY

DATE: 12/08/2019   **EXAM SESSION: 2.00 – 3.30 PM**

TIME: $1\frac{1}{2}$ HOURS

Instructions:

1. Answer all the questions in Section 'A' and ANY other two questions in Section 'B'.

2. Candidates are advised not to write on the question paper.

3. Candidates MUST hand in their answer booklets to the invigilator while in the examination room.

SECTION A: ANSWER ALL THE QUESTIONS IN THIS SESSION (30 MARKS)

1. Define the following terms   (3 marks)
   a) Pandemic
   b) Hypothesis
   c) Nosocomial infections
2. Differentiate between a frequency and pattern.   (2 marks)
3. Name **FOUR** attributes of a good screening test?   (2 marks)
4. What do you understand by the term case definition in epidemiology? (2 marks)
5. Giving examples what is human inherent characteristics?   (3 marks)
6. A town has 8000 schools with 8,000,000 persons. Calculate the ratio of schools per person.   (3 marks)
7. What is the importance of descriptive epidemiology?   (3 marks)
8. How does experimental studies differ from observational studies?   (4 marks)
9. Using a diagram explain briefly the epidemiological triad?   (4 marks)
10. Name some of the factors contributing to emergence of infectious diseases? (4 marks)

SECTION B: ANSWER ANY OF THE TWO QUESTIONS IN THIS SESSION (30 MARKS)

1. a) Name and explain the levels of disease prevention?   (5 marks)
   b) Discuss the cohort studies?   (10 marks)

2. a) Name and explain briefly the different patterns of diseases occurrence? (5 marks)
   b) What are some of the importance of epidemiology?   (10 marks)

3. Discuss the principles of epidemiology.   (15 marks)

4. a) What do you understand by the term case control?   (5 marks)
   b) Explain briefly why age, race and sex are such important attributes in epidemiology.   (10 marks)