



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND**  
**DEVELOPMENT**  
**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**  
**KISUMU CAMPUS**

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**COURSE CODE: HDC 2122**

**COURSE TITLE: INTRODUCTION TO EPIDEMIOLOGY**

**EXAM VENUE:**

**STREAM: Dip. Comm Health & Dev**

**DATE:**

**EXAM SESSION:**

**TIME: 1.5 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section 'A' and ANY other two questions in Section 'B' each contain 15 marks**
- 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) Epidemiology
  - b) Sporadic
  - c) Hyperendemic
2. Name examples of experimental studies? (2 marks)
3. How is a case defined in a disease outbreak? (2 marks)
4. Differentiate between frequency and pattern? (2 marks)
5. Identify some of the approaches involved in control of diseases? (2 marks)
6. Name the examples of measures of association? (2 marks)
7. Name examples of human inherent characteristics? (3 marks)
8. What is the importance of descriptive epidemiology? (3 marks)
9. State the factors that vary with age in terms of diseases? (3 marks)
10. Note some of the examples of tertiary prevention of disease? (4 marks)
11. Briefly mention and explain the different forms of screening (4 marks)

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

1.
  - a) Name attributes of a good screening test? (5 marks)
  - b) What are some of the factors that contribute to emergence of infectious diseases? (10 marks)
2.
  - a) Using examples classify communicable diseases? (5 marks)
  - b) Note the differences between case control and cohort studies? (10 marks)
3.
  - a) Discuss briefly the epidemiological triad (5 marks)
  - b) Discuss the principles of epidemiology (10 marks)
4.
  - a) Name the uses of epidemiology? (5 marks)
  - b) Pick any disease of your choice and discuss it based on the epidemiologic triad of the disease? (10 marks)