



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE TVET DIPLOMA IN COMMUNITY  
HEALTH AND DEVELOPMENT**

**1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER 2024 ACADEMIC YEAR**

**KISUMU CAMPUS**

---

**COURSE CODE: HDC 2123**

**COURSE TITLE: EPIDEMIOLOGY AND COMMUNITY HEALTH WORKS**

**EXAM VENUE: STREAM (TVET DIP CHD)**

**DATE: EXAM SESSION:**

**TIME: 2 HOURS**

---

**Instructions:**

- 1. Answer all questions in section A and any other 2 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 30MKS (Answer ALL the Questions)**

1. Define the following terms:
  - a) Disease Surveillance (2 marks)
  - b) Epidemiology (2mks)
  - c) Epidemic (2mks)
2. Explain briefly how cases are defined in an Epidemic outbreak (3mks)
3. State THREE uses of epidemiology (3mks)
4. List three epidemiological study design as used in Epidemiology (3mks)
5. Mention how the information regarding disease outbreak get into contact with health agencies (3mks)
6. Differentiate between incidence and prevalence as a measure of disease frequency (3mks)
7. State any THREE ways of preparing and disseminating disease surveillance report (3mks)
8. Draw a well labeled diagram of an epidemiological triad and explain circumstances under which disease outbreak occurs (6mks)
9. Explain any THREE types of epidemics in epidemiological study (3mks)

**SECTION B 40 MARKS: ANSWER ANY TWO QUESTIONS**

1. Discuss in details the principles of Epidemiology (20mks)
2. Discuss in details level of disease prevention with emphasis on the importance role played by each level (20mks)
3. Discuss in details the characteristics of a good disease surveillance systems (20mks)
4. Discuss steps involved in outbreak investigation (20mks)