



**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 2<sup>ND</sup> SEMESTER 2021/2022 ACADEMIC YEAR**  
**NAIROBI**

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**COURSE CODE: HDC 2124**

**COURSE TITLE: PREVENTION AND CONTROL OF COMMUNICABLE AND NON-COMMUNICABLE DISEASES**

**EXAM VENUE:** **STREAM: (Dip. Comm Hlth & Dev)**

**DATE:** **EXAM SESSION:**

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer all the 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: 30 MARKS**

1. Differentiate, giving examples, between direct and indirect modes of disease transmission (3 marks)
2. Define a carrier and explain their role in infectious disease causation (3 marks)
3. Explain any three examples of primordial disease prevention (3 marks)
4. Differentiate and give examples between Isolation and Quarantine as applied to patients (3 marks)
5. Explain the three main modifiable risk factors of cardiovascular disease. (3 marks)
6. Explain the nutritional interventions that may be applied in the prevention of the following diseases (3 marks)
  - a. Hypertension.
  - b. Night blindness
  - c. Osteoporosis
7. Explain any three main intentions of tertiary prevention of an NCD (3 marks)
8. List three viral and three bacterial zoonotic infections of public health importance in Kenya (3 marks)
9. Briefly discuss three ways through which communities can be engaged to help in control of Communicable and NCDs (3 marks)
10. Briefly explain TWO reasons why patients suffering from STI are at higher risk of acquiring HIV (3 marks)

### **SECTION B: 30 MARKS**

1. Discuss transmission, prevention and control of Cholera, using the chain model of transmission of communicable diseases (15 marks)
2. Discuss principles of infectious diseases management (15 marks)
3. Joan, a 19 years old student who is para 1+1 has come to the clinic for her 6 weeks postpartum clinic at Maseno Clinic today. She takes HIV test as one of her postpartum routine care. Her HIV test is positive. Discuss any 2 factors that may increase vertical transmission of HIV apart from high viral load (15 marks)
4. Discuss how surveillance can help inform public health efforts in prevention and control of NCDs (15 marks)