



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES**

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

2ND YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR

COURSE CODE: HDC 2122

COURSE TITLE: INTRODUCTION TO EPIDEMIOLOGY

EXAM VENUE: STREAM: (Dip Comm Health & Dev)

DATE:

EXAM SESSION:

TIME: 1 1/2.00 HOURS

MAIN CAMPUS

Instructions:

Answer all the questions in Section A and ANY other 2 questions in Section B.

Candidates are advised not to write on the question paper.

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

SECTION A: ANSWER ALL THE QUESTIONS {30MKS}

1. Define the following epidemiological terms
 - a) Epidemic
 - b) Endemic
 - c) Pandemic
2. Explain the major components in the definition of epidemiology (3mks)
3. Distinguish between etiologic agent and risk factor of a disease as used in epidemiology giving example in each category.(3mks)
4. Enumerate three ways of measuring health status in a community (3mks)
5. Using epidemiological triangle, explain the relationship among three key factors necessary for the disease to occur. (3mks)
6. Define natural history of disease (3mks)
7. The average total population of ``Kabele Y`` in 1996 was 6000 (3500 female and 2500 males). Calculate mortality rate (Crude Death Rate) for females. (3mks)
8. State three uses of prevalence rate. (3mks)
9. Briefly explain the concept of case-control study as used in epidemiologic study (3mks)
10. State three causes of neonatal mortality (3mks)

SECTION B {ANSWER ANY TWO QUESTIONS IN THIS SECTION 40MKS}

11. Discuss your roles as a Community Health Extension Worker in prevention and control of cholera outbreak in your area of work (20mks)
12. A disease does not just occur. Discuss the various causes of diseases in human population (20mks)
13.
 - a) Identify and explain the natural history of disease (12mks)
 - b) Define the following terms: (8mks)
 - i. Crude Death Rate
 - ii. Age Specific Mortality Rate
 - iii. Case Fatality Rate
 - iv. Neonatal Mortality Rate
14. Discuss the uses of epidemiology in the community health practice. (20mks)