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

UNIVERSITY EXAMINATION FOR CERTIFICATE IN COMMUNITY HEALTH AND DEVELOPMENT

1st YEAR 2ND   SEMESTER 2015/2016 ACADEMIC YEAR

KISII CAMPUS

COURSE CODE: HCD 1125

COURSE TITLE: INTRODUCTION TO EPIDEMIOLOGY AND PREVENTION OF COMMON DISEASE

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

DATE: xxxxx   **EXAM SESSION:**

TIME: 1.5 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   Answer all questions in this section (30 marks)

1. State three use of epidemiology   (3marks)

2. Name the scientist who made the following contribution   (3marks)

	Contribution	Name of the scientist
I	Demonstrated that micro organism causes disease and vaccine could be used for disease control	
Ii	Demonstrated cholera could transmitted through contaminated water	
Iii	Invented vaccine against small pox	

3. In 2015 the number of new case of sexually transmitted infection (STI) was 29 among the men aged 40-44 years in Homa Bay County. The person years of following was 41532 among that group of people. What is the incidence rate of STI + among those people?
                                                                            (4marks)

4. Define the following terms as used in epidemiology   (3marks)
    i.   virulence
    ii.   susceptible
    iii.   infectious disease

5. Explain briefly two types of population in epidemiology   (2marks)

6. Explain four factors that influencing the decrease of prevalence   (3marks)

7. Distinguish between the following terms   (3mark)

    i.   incidence and prevalence
    ii.   illness and sickness
    iii.   Rate and ratio

8. Explain three causation theories of diseases   (3marks)
9. State three condition under which herd immunity best function   (3marks)
10. State three factors which influence the development of disease   (3marks)

SECTION B Answer any two Questions (30 Marks)

11. Briefly discuss different types of epidemics outbreak that are common in human population   (15marks)

12.) i)Discuss the Advantages and disadvantage of the following source of health data
                                                                                                         (10marks)

     (a) Health survey
     (b) Hospital health records

  ii) Explain the four factors that determine the human health   (5 marks)

13. Discuss the levels of prevention under the following; primordial, primary, secondary and tertiary prevention.   (15 marks)

14. Hypetension is one of the non-communicable disease discuss it under the following
                                                                                                         (15 marks)

a) Cause
b) Sign and symptom
c) Prevention
d) Predisposal
e) Epidemiology