

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2013/2014**

**SCHOOL OF HEALTH SCIENCES - KISII LEARNING CENTRE
FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN PUBLIC HEALTH**

COURSE TITLE: FUNDAMENTALS OF PUBLIC HEALTH

COURSE CODE: HPD 3113

TIME: 2HOURS

INSTRUCTIONS

This paper contains two (2) sections. Answer ALL questions in section A and ANY TWO in section B.

SECTION A: 30 MARKS

1. Distinguish between (2 marks)
 - a. Prevalence and Incidence
 - b. Risk and Rate
2. Distinguish between epidemic, endemic and pandemic (3 marks)
3. Briefly describe the key functions of Public Health (4 marks)
4. a) Briefly discuss the three types of refuse (3 marks)
b) Explain three ways in which refuse can be deposited (3 marks)
5. Discuss the three diseases affected by water (3 marks)
6. Explain with examples the different types of immunization (4 marks)
7. Explain the principles of vector control in control of vector borne diseases (4 marks)
8. Briefly describe the epidemiologic triangle model (4 marks)

SECTION B: 40 MARKS

1. Discuss the principles of Primary healthcare (20 marks)
2. a) Briefly describe the difference between communicable and non communicable disease and give examples of each (5 marks)
b) Using the chain of infection and malaria as an example, explain how communicable diseases are transmitted in a community. (10 marks)
c) List and briefly discuss measures for preventing and controlling spread of communicable diseases in a community
3. a) Distinguish between elimination and eradication (2 marks)
b) Define prevention and discuss the three levels of prevention, giving examples of each (18 marks)
- 4 a) Define Health promotion (2 marks)
b) List and discuss the elements of health promotion (18 marks)