



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (FOODS, NUTRITION AND DIETETICS)**

HFN 300: BASIC NUTRITION EPIDEMIOLOGY

DATE: Monday, 21st December, 2009

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS:

1. Explain each of the following:-

- a) Infant mortality rate
- b) Crude mortality rate
- c) Maternal mortality rate
- d) General fertility rate
- e) Proportionate mortality ratio

(10 marks)

2. In an Asia country with a population of 6 million people, 60,000 deaths occurred during the year ending Dec. 31, 2004. These included 30,000 deaths from cholera in 100,000 people who were sick with cholera.

- a) What was the cause specific mortality rate in 2004?
- b) What was the case fatality rate from cholera in 2004?

(10 marks)

3. Explain the difference between Rate, Ratio and proportion as used in Epidemiology. (6 marks)
4. Briefly discuss:-
 - a) Prevalence of a disease condition. (4 marks)
 - b) Giving examples explain the difference between prevalence and incidence (5 marks)
5.
 - a) Why is disease prevention important? (2 marks)
 - b) State and discuss the three levels of disease prevention. (12 marks)
6. Explain why it is important to describe place, person as you describe the distribution of coronary heart disease in Kenya today. (6 marks)
7. Give a detailed difference between person and host in disease distribution. (4 marks)
8. Describe in detail how you would conduct a case-control study of a given health condition. (5 marks)
9. With the aid of diagrams differentiate between Population pyramids of a developed and a developing country. (6 marks)