



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2009/2010

**SUPPLEMENTARY EXAMINATION FOR THE DEGREE OF MASTER
OF SCIENCE
(FOODS, NUTRITION AND DIETETICS)**

HFN 501: NUTRITIONAL EPIDEMIOLOGY

DATE: THURSDAY, 26TH NOVEMBER 2009 TIME: 9.00 A.M. – 12.00 P.M.

INSTRUCTIONS:

Answer ALL questions

1.
 - a) Explain the methods for measuring morbidity in a community
 - b) Explain the Person-Place-Time model of epidemiological research.
 - c) In a study of heart disease over three years 1000 men aged 45 to 64 years developed heart disease out of a total population of 10,000. Calculate cumulative incidence (CI)
 - d) Describe how to standardize mortality rates. [30marks]

2.
 - a) Explain the factors which may affect research results of a nutrition epidemiology survey.
 - b) Explain the term Ecological Fallacy.
 - c) Describe the set up of a Cohort study? Identify the weaknesses of a Cohort study. [30marks]

3. The data below is form a breast feeding study.

	Exclusive BF	Part/No. BF	
Control	27	20	47
Treatment	10	32	42
	37	52	89

Calculate;

- a) Odds for exclusive breast feeding at discharge in the control and treatment groups
- b) Relative risk (RR) for exclusive breast feeding in the control and treatment groups
- c) Odd ratio (OR) for exclusive breast feeding at discharge
- d) Comments on the results of the calculations in a, b, and c. [40marks]