



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

INSTITUTIONAL BASED PROGRAMME (DECEMBER SESSION)

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

(ENVIRONMENTAL HEALTH)

HEH 305: HUMAN POPULATION STUDIES AND HEALTH

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DATE: THURSDAY 3RD MAY 2012

TIME: 2.00 P.M. – 4.00 P.M.

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INSTRUCTIONS

SECTION A: Answer ALL questions in this section

Q.1 Define the following concepts as used in population health.

- a) Demography (2 marks)
- b) Fertility (2 marks)
- c) Nuptiality (2 marks)
- d) Vital registration (2 marks)
- e) Sampling errors (2 marks)
- f) General fertility rate (2 marks)

Q.2 Describe Types of Demographic Data that can be used for CBHC programming .
(8 marks)

SECTION B: Answer question 3 and any other two questions.

Q.3 a) Table 1.1 shows approximate population data for central province for the calendar year 2009 (all figures are in thousands)

Population beginning of	1999	225,531
Pop end of	1999	327,448
Births during	1999	4,868
Deaths during	1999	3,752

Use the following table 1, compute the following

- a) Growth increase during 1999 (2 marks)
- b) (Natural increase during 1999) (2 marks)
- c) Net migration (2 marks)
- d) Estimates mid- year population 1999 (2 marks)
- e) Crude rate of natural increase 1999 (2 marks)
- f) Crude growth rate % 1999 (2 marks)

- b) Describe the limitations and strengths of vital statistics as a source of demographic data.

Q.4 a) Using the data presented on table 1.2, calculate the following

- i) The age specific fertility rate (7 marks)
- ii) and the Total fertility rate (2 marks)

Age group	No. of women	No of live births
15-19	412700	53210
20-24	313100	91220
25-29	321900	93420
30-34	242900	54130
35-39	145800	28410
40-44	171800	12310
45-49	134700	4210

- b) Describe the relevance of sex data in environmental health research. (6 marks)

Q.5 Discuss the relevance of the Davis and Blake model of the proximate determinants of fertility in explaining the fertility patterns in Kenya. (15 marks)

Q.6 Discuss the major underlying factors that contribute to under-five morbidity and mortality in Kenya. (15 marks)