



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2015/2016**

**FIRST YEAR SECOND SEMESTER EXAMINATIONS FOR THE  
DEGREE OF MASTER OF PUBLIC HEALTH**

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**(CITY CAMPUS)**

**PHE 821: CHANGING DEMOGRAPHY, HEALTH AND  
DEVELOPMENT**

Date: 4<sup>th</sup> December, 2015

Time: 9.00 - 12.00 noon

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**INSTRUCTIONS:**

1. The time allowed for this paper is THREE (3) hours.
2. The Questions are set out in TWO (2) Sections, A and B.
3. Read very carefully the additional instructions preceding each section.

**SECTION A (20 MARKS)**

**SHORT ANSWER QUESTIONS (SAQs)**

**INSTRUCTIONS:** Answer all the questions in this section in the Answer Booklet provided

**SAQ1.** Explain the stage of the demographic transition that has the highest population growth rates. **(2 marks)**

**SAQ2.** Kenya is in a fertility transition implying an aging population. Explain the implication of compressing morbidity and mortality versus no compression of morbidity and mortality. **(2 marks)**

**SAQ3.** Use the table below to calculate the Total Fertility Rate

Age group of women	Number of women	Number of live births	Age-specific birth rates
15-19 years	1,237,721	117,583	
20-24	978,136	268,987	
25-29	979,623	283,111	
30-34	989,693	254,351	
35-39	814,243	162,034	
40-44	548,882	57,633	
45-49	406,540	22,766	
TOTAL	5,954,838	1,166,465	

TFR= **(2 marks)**

**SAQ2.** Describe the effect on Kenya's population of

i. Epidemiological polarization **(2 marks)**

ii. Demographic bonus **(2 marks)**

**SAQ3.** Explain the **FOUR (4)** most important proximate determinants of fertility variation in most countries.

**(4 marks)**

**SAQ4.** List **TWO (2)** administrative and **TWO (2)** medical uses of vital registration records in Kenya. **(4 marks)**

**SAQ5.** The rate of natural increase of a population over a specific time period can be expressed as a percentage. If the crude birth rate is 50 per 1000 and the crude death rate is 20 per 1000, calculate the rate of natural increase. **(1 mark)**

**SAQ6.** Define the significance of perinatal mortality rate. **(1 mark)**

**SECTION B (40 marks)**

**INSTRUCTIONS:** Select ANY FOUR (4) questions and answer in the Answer Booklet provided

**LAQ1.** Discuss the significance of the infant mortality measure as an indicator of socioeconomic development of a county. Use Siaya as your reference county.

**(10 marks)**

**LAQ2.** Family planning saves lives. Discuss this statement in view of the development of Homa Bay County and suggest strategies you will employ to increase contraceptive use in this county.

**(10 marks)**

**LAQ3.** Using a diagram, DISCUSS the Health Transition

**(10 marks)**

**LAQ4.** Discuss any FIVE (5) continuing and emerging challenges that need to be addressed for Kenya to achieve its national goals as articulated in the Vision 2030. **(10 marks)**

**LAQ5.** Discuss FOUR (4) distinctive features of urbanisation in sub-Saharan countries and the public health challenges of urbanisation in Kenya **(10 marks)**