UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER 2013

TITLE OF PAPER: INTRODUCTION TO DEMOGRAPHY

COURSE CODE: DEM 101

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER THREE QUESTIONS. QUESTIONS 1 AND 2 ARE COMPULSORY.

REQUIREMENTS: CALCULATOR

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Question 1 (COMPULSORY)   [25 marks]

Difficulties are encountered in Africa in collecting and measuring accurate and complete data on the following two items:

i.   age of both sexes; and,

ii. number of births and deaths.

For all of the above **TWO** items:

a) Suggest reasons why the difficulties are encountered; and,   [10+10]

b) Discuss the ways of collecting data that would improve the results.   [5]

Question 2 (COMPULSORY)   [25 marks]

a. The data in table below relate to a certain African country. They come from a large-sample survey of the population of the country which took place in 1992. You are also told that the total number of urban women in the survey is 1,334 and that the total number of rural women in the survey is 10,518.

i.   Calculate the general fertility rates for rural and urban areas; and   [6]
ii. Calculate total fertility rates for urban and rural areas.   [4]

| Age group | Percentage (%) of all women in age group | | Age-specific fertility rates (per woman) | |
	Urban	Rural	Urban	Rural
15-19	9.7	9.4	0.135	0.165
20-24	10.1	7.8	0.268	0.291
25-29	9	6.3	0.242	0.273
30-34	6.3	5.3	0.210	0.261
35-39	4.7	4.4	0.149	0.202
40-44	3.0	4.4	0.086	0.123
45-49	1.9	3.1	0.012	0.062

b. Table below gives the numbers of births, deaths of infants under 1 year, and deaths of infants aged under 28 days, in a certain developing country in selected recent calendar years:

i. Calculate the percentage of infant deaths in each year which were neonatal deaths; [3]

ii. Calculate the infant mortality rates for each year, and comment on your answers; [5]

iii. Calculate the neonatal mortality rates for each year, and comment on your answers; and [5]

iv. Briefly explain four demographic variables that have a great impact on the chances of survival of infants and young children. [2]

| Year | Number of Births | Number of deaths | |
		At ages under 1 year	At ages under 28 days
1986	755,000	7,180	4,000
1991	792,500	5,820	3,460
1995	732,000	4,520	3,070

Question 3 [25 marks]

Censuses are one of the major sources of demographic data for countries in the southern African region.

a) Explain the meaning of a census; [2]

b) Contrast between types of a census undertaking; [6]

c) Explain the essential features of a census; [4]

d) State two types of non-sampling errors that are common to censuses; [2]

e) Briefly explain any two reasons for the importance of censuses in Southern African countries; and, [4]

f) Discuss how a post-enumeration survey is conducted, and its purpose. [7]

Question 4 [25 marks]

a. Discuss the implications of population growth under **ONE** of the following headings: [10]

    a. Socioeconomic implications; or

    b. Environmental implications; or

    c. Health implications.

b. Explain any five factors that affect mortality rates in developing countries. [10]

c. What are the problems for migration in its measurement in African countries? [5]