UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2008

TITLE OF PAPER: INTRODUCTION TO DEMOGRAPHY

COURSE CODE   :   DEM 101

TIME ALLOWED :   TWO (2) HOURS

INSTRUCTIONS :   ANSWER QUESTION 1 AND <u>ANY OTHER TWO</u> <u>(2)</u> QUESTIONS.

PLEASE DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

QUESTION 1 (Compulsory)   **(4+4+4+4+4 marks)**

Mid-year Female Population and Live Births by Maternal Age, 1991

Age	Female Population	Live Births
15-19	18,000	299
20-24	20,000	3 008
25-29	21,000	2 814
30-34	19,000	1 938
35-39	27,000	1 485
40-44	24,000	456
45-49	22,000	159

NB: Total population in 1991- 600,000

Maternal and Infant Deaths and Still births, 1991

Maternal deaths   10
Infant deaths   210
Neonatal deaths   126
Early neonatal deaths   106
Still births   200

Using the above data, calculate the following measures and interpret them:
     i.   Crude Birth rate
     ii.   General fertility rate
     iii.   Total fertility rate
     iv.   Infant mortality rate
     v.   Maternal mortality rate.

QUESTION 2   **(4+5+5+6marks)**
     a.   Describe four features of a population census.

     b.   What are the limitations of a population register?

     c.   Explain why vital registration is deficient in developing countries such as Swaziland?

     d.   What are the advantages of demographic surveys over population censuses?

QUESTION 3   **(4+4+4+4+4 marks)**

Distinguish fully between the following concepts and measures:

    a.   Population structure and population composition;

    b.   Demography and population studies;

    c.   Mortality and morbidity;

    d.   Epidemic and endemic disease; and

    e.   Sampling frame and sampling error.

QUESTION 4   **(5+5+5+5 marks)**

Table A: Age specific fertility rates (ASFRs) for Swaziland: 1986

Age Group	Number of Women	ASFR
15-19	77 844	0.0825
20-24	64 760	0.1931
25-29	53 464	0.1905
30-34	40 074	0.1714
35-39	34 193	0.1260
40-44	26 600	0.0655
45-49	24 364	0.0361

Based on Table A, compute the following measures:
    a.   Total number of births;
    b.   Total fertility rate;
    c.   General fertility rate; and
    d.   Median age at child birth.