UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER
YEAR 2014

COURSE TITLE: **COLLECTION AND ASSESSMENT OF DEMOGRAPHIC DATA**

COURSE NUMBER: **DEM 203**

TIME ALLOWED: **2 (TWO) HOURS**

INSTRUCTIONS: **ANSWER ANY 3 (THREE) QUESTIONS**

SPECIAL REQUIREMENTS: **NONE**

Question 1

a) Write the Balancing Equation. What is the main shortcoming of the equation with respect to assessment of errors in census data especially in sub-Saharan Africa

[12 points]

b) What are Post Enumeration Surveys and how are they employed to help detect errors in data. [8 points]

Question 2

Collapsing and then splitting age returns of age groups may help smooth data that is heavily influenced by age misreporting. Show how using the appropriate formulae [20 points]

Question 3

What are vertical, horizontal and diagonal consistency check methods in data error detection? Use appropriate examples to elaborate

[20 points]

Question 4

Discuss fully what is the UN Joint Score Index and how does it detect errors in data [20 points]

Question 5

In the adjustment of age and sex data, the UN three point/five point smoothing formulae may be used. Discuss the assumptions associated with this method and explain how it is a moving average method

[20 points]