

# **UNIVERSITY OF SWAZILAND**

## **FINAL EXAMINATION PAPER YEAR 2013**

**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) What are vertical, horizontal and diagonal consistency check methods in data error detection? [12 points]
- b) In the evaluation of data and error detection both Direct and Indirect methods can be used. Explain briefly [8 points]

**Question 2**

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

**Question 3**

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]

**Question 4**

- a) Write the Balancing Equation. What is the main shortcoming of the equation with respect to assessment of errors in census data [12 points]
- b) What are Post Enumeration Surveys and how are they employed to help detect errors in data. [8 points]

**Question 5**

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]