UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER
YEAR 2010

COURSE TITLE: COLLECTION AND ASSESSMENT OF DEMOGRAPHIC DATA

COURSE NUMBER: DEM 203

TIME ALLOWED: 2 (TWO) HOURS

INSTRUCTIONS: ANSWER QUESTION 1 AND ANY OTHER TWO QUESTIONS

SPECIAL REQUIREMENTS: NONE

Question 1

In the calculation of Age Ratios, the UN, Zelnik and Ramachandran methods may be used. Discuss fully these methods emphasizing the rationale for their formulation **[20 points]**

Question 2

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 3

a) List six limitations of a census **[6 points]**

b) What are the four objectives of Demographic surveys **[4 points]**

c) What are content and coverage errors **[6 points]**

d) In the evaluation of data and error detection both Direct and Indirect methods can be used. Explain briefly **[4 points]**

Question 4

a) Why is population data presented preferably in age groups rather than in single years? **[6 points]**

b) When detecting errors in data, internal consistency check can be used, then vertical and horizontal consistency checks employed. Explain the meaning of the statement **[14 points]**

Question 5

In the adjustment of age and sex data the UN three point/five point smoothing formulae or Newton's Halving formula (Quadratic Interpolation) may be used. Discuss fully the two methods
[20 points]