# UNIVERSITY OF SWAZILAND

## FINAL EXAMINATION PAPER

**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 content and coverage errors

[6 points]

b) In the evaluation of demographic data and error detection both Direct and Indirect methods can be used. Explain fully the statement using examples

[14 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

What are internal, vertical, horizontal and diagonal consistency checks when detecting errors in population data. Use examples to illustrate your answer. [20 points]

#### Question 4

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 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]