

UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER 2005

COURSE TITLE: POPULATION ESTIMATES AND
PROJECTIONS

COURSE CODE: DEM 301

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY THREE (3) QUESTIONS

SPECIAL REQUIREMENTS: CALCULATOR

Question 1

- a) The Census Cohort-Change Method is one of a number of Cohort-Component methods of population projection. Discuss the computational procedures of this method [15]
- b) Briefly discuss both the similarity and difference between Post Censul estimates and Projections [2]
- c) What are Person-years lived and how are they used in Demography [8]

Question 2

- a) What are the major advantages of the arithmetic progression model? Briefly discuss any three. [15]
- b) Given the population of Spain during the following years, estimate the population for 1950 using the geometric progression curve

DATE	POPULATION
30 TH JUNE 1930	23 563 867
30 TH JUNE 1935	25 877 971
30 TH JUNE 1950	?

[10]

Question 3

- a) Discuss the disadvantages of the geometric growth curves [12]
- b) Briefly discuss the logistic curve [8]
- c) What is the major disadvantage of the logistic curve [5]

Question 4

- a) What are variant and how are they used in projection [15]
- b) What are the computational procedures when projecting rural and urban population using the Ratio Method [10]

Question 5

- a) Discuss the Period-Fertility Method of Projecting births [15]
- b) Discuss the need for national projections [10]