UNIVERISTY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVORONMENTAL SCIENCE AND PLANNING
FINAL EXAMINATION, MAY 2008
B.A., B.Ed., B.Sc., BASS.

TITLE OF PAPER: INTRODUCTION TO THE HUMAN ENVIRONEMNT

COURSE NUMBER: GEP 121

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS: THIS PAPER IS DIVIDED INTO TWO SECTIONS

SECTION A: SHORT ANSWERS / ESSAYS

    1. ANSWER ANY TWO QUESTIONS
    2. EACH QUESTION CARRIES 30 MARKS

SECTION B: TECHNIQUES AND SKILLS

    1. ANSWER ALL QUESTIONS (COMPULSORY)
    2. THIS SECTION CARRIES 40 MARKS

THIS PAPER SHOULD NOT BE OPENED UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

SECTION A: SHORT ANSWERS / ESSAYS   (60 MARKS)
ANSWER ANY TWO QUESTIONS

QUESTION 1
a) Define the following:

i) Possibilism	(2 marks)
ii) Stop and go determinism	(2 marks)
iii) Renewable resources	(2 marks)
iv) Extreme geophysical events	(2 marks)
v) Population pyramid	(2 marks)

b) Discuss on the globalization debate.   (20 marks)

(30 marks)

QUESTION 2
a) Distinguish between renewable and non renewable resources.   (10 marks)

b) Regarding resources availability the question that is often asked is 'How long will reserves of the earth's non-renewable resources last' (Haggett, 2001). Discuss.

(20 marks)

(30 marks)

QUESTION 3
a) 'Plant breeding has played an increasingly important role in increasing and maintaining agricultural yields' (Haggett, 2001). Discuss the validity of this statement.

(15marks)

b) Using examples, discuss on the 'tragedy of the commons'.   (15 marks)

(30 marks)

QUESTION 4
Using examples, discuss how diseases are a human hazard in a changing environment.

(30 marks)

SECTION B: TECHNIQUES AND SKILLS   (40 MARKS)
COMPULSORY

QUESTION 1

Define the following:

i) Dependency ratio	(2 marks)
ii) Population change	(2 marks)
iii) Cultural landscape	(2 marks)
iv) Topology	(2 marks)
v) Cartogram	(2 marks)

QUESTION 2

Using the hypothetical data for Swaziland in Table 1, do the following:
i) Compute the age-specific birth rate. (14 marks)
ii) Calculate the Total Fertility Rate. (3 marks)
iii) Comment on the fertility status of women in Swaziland. (3 marks)

Table 1 Computation of Total Fertility Rate, For Swaziland in 2005

Age	No. of women	No. of births
15-19	890 530	88 537
20-24	820 170	250 510
25-29	765 755	280 573
30-34	720 731	370 829
35-39	679 650	200 115
40-44	515 569	30 995
45-49	485 480	8 240

QUESTION 3

a) Project the population size for Swaziland in the years 2020, 2030 and 2050 based on the 2007 population of about 2 million and a growth rate of 3.5%. (6 marks)

b) Outline the procedure for constructing a Lorenz curve. (4 marks)

(40 marks)