UNIVERISTY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVORONMENTAL SCIENCE AND PLANNING FINAL EXAMINATION, MAY 2011 B.A., B.Ed., B.Sc., BASS, JMC3, IDE.

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

SPECIAL REQUIREMENTS: None

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

GEP 121: INTRODUCTION TO THE HUMAN ENVIRONMENT – MAY 2011 SECTION A: SHORT ANSWERS / ESSAYS (60 MARKS) ANSWER ANY TWO QUESTIONS

QUESTION 1

a) Using examples explain extreme environmental events. (

(16 marks)

b) Outline the measures which are used in evaluating the climatic environment as a hazard. (14 marks)

(30 marks)

QUESTION 2

a) Using examples discuss the spatial variation of culture.

(20 marks)

b) Explain the role played by religious beliefs in cultural differentiation. (10 marks)

(30 marks)

QUESTION 3

Critically analyze the factors affecting the growth and development of cities.

(30 marks)

QUESTION 4

Using examples discuss the factors responsible for conflicts between states.

(30 marks)

SECTION B: TECHNIQUES AND SKILLS (40 MARKS) COMPULSORY

QUESTION 1

Define the following concepts:

i.	Three-quarters rule	(2 marks)
ii.	Lorenz curve	(2 marks)
iii.	Population doubling time	(2 marks)
iv.	Quantitative variable	(2 marks)
v.	Optimum population	(2 marks)

QUESTION 2

The total land area of Swaziland is 17 365 square kilometres. In year 1997 the population was estimated to be 1 million, of which 15 per cent were less than 5 years of age and 25 per cent were females in the age group 15-49 years. In year 1997, 22 000 babies were born, with 48 per cent being female, and only 10 020 of these babies survived the first year of life.

Using the information above, calculate the following, showing the formula and workings:

a) The density of population

(2 marks)

b) The sex-ratio at birth

(2 marks)

c)	The crude birth rate	(2 marks)
d)	The child-women ratio	(2 marks)
e)	The female infant mortality rate	(2 marks)

QUESTION 3

a) Outline the procedure for constructing a linear graph using any appropriate example of your choice. Do not draw the linear graph. (5 marks)

b) Using an appropriate graphical technique portray the hypothetical data shown on table 1. (15 marks)

Table 1: Sales of the Hub Spar in Emalangeni (E) by department from 2002-2005

YEAR	DEPARTMENT					
	Fruits	Bakery	Liquor	Grocery	Meat	
2002	150	1 120	1 490	2 970	1 780	
2003	1 600	1 090	1 430	2 840	1 840	
2004	1 444	1 290	1 356	3 580	2 098	
2005	1 098	1 570	1 275	4 608	2 240	

(40 marks)