

**UNIVERSITY OF SWAZILAND**  
**DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND**  
**PLANNING**

**FINAL EXAMINATION, MAY 2015**

**B.A., B.Ed., B.Sc., BASS, JMC3, IDE.**

**TITLE OF PAPER: INTRODUCTION TO THE HUMAN ENVIRONMENT**

**COURSE NUMBER: GEP 121**

**TIME ALLOWED: THREE (3) HOURS**

**INSTRUCTIONS: THIS PAPER IS DIVIDED INTO TWO SECTIONS**

**SECTION A: TECHNIQUES AND SKILLS**

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

**SECTION B: SHORT ANSWERS / ESSAYS**

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

**SPECIAL REQUIREMENTS: Graph paper**

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

**GEP 121: INTRODUCTION TO THE HUMAN ENVIRONMENT – MAY 2015****SECTION A: TECHNIQUES AND SKILLS (40 MARKS)  
COMPULSORY****QUESTION 1**

- a) Using an appropriate graphical technique, represent the data in Table 1 below. (10 marks)
- b) Compute the age-specific birth rate and total fertility rate for country X in 2014 in Table 2 below. (10 marks)
- c) Using an appropriate graphical technique portray the hypothetical data shown in Table 3 below. (10 marks)
- d) Using the information in Figure 1, calculate the amount of interaction between Mbabane and the towns in the Hhohho district of Swaziland. (Use straight line distances in km). (10 marks)
- (40 Marks)**

Table 1: Average monthly temperature for Matsapha in 2014

Month	Av. Temp. (°C)
January	39.6
February	34.8
March	30.4
April	26.1
May	18.5
June	10.3
July	12.8
August	24.3
September	26.8
October	30.3
November	36.3
December	38.1

Source: Hypothetical

Table 2: Women in the Reproductive Groups and Live Births for country X in 2014

Age	No. of Women (1)	No. of Births (2)	Births per 1000 Women (3)
15 – 19	2 580 162	2 048 537	
20 – 24	4 528 007	4 150 210	
25 – 29	3 481 755	3 100 573	
30 – 34	2 408 741	882 822	
35 – 39	1 379 640	163 192	
40 – 44	1 311 469	119 745	
45 – 49	1 287 480	17 240	
Total Fertility Rate			

Source: Hypothetical

Table 3: Sales at Pick n Pay in Emalangeni (E) by department from 2011-2014

YEAR	DEPARTMENT			
	Fruits	Bakery	Liquor	Meat
2011	1 050	1 420	2 940	1 980
2012	1 800	1 900	2 630	2 480
2013	2 440	2 590	1 856	3 098
2014	2 908	3 170	1 575	3 250

Source: Hypothetical

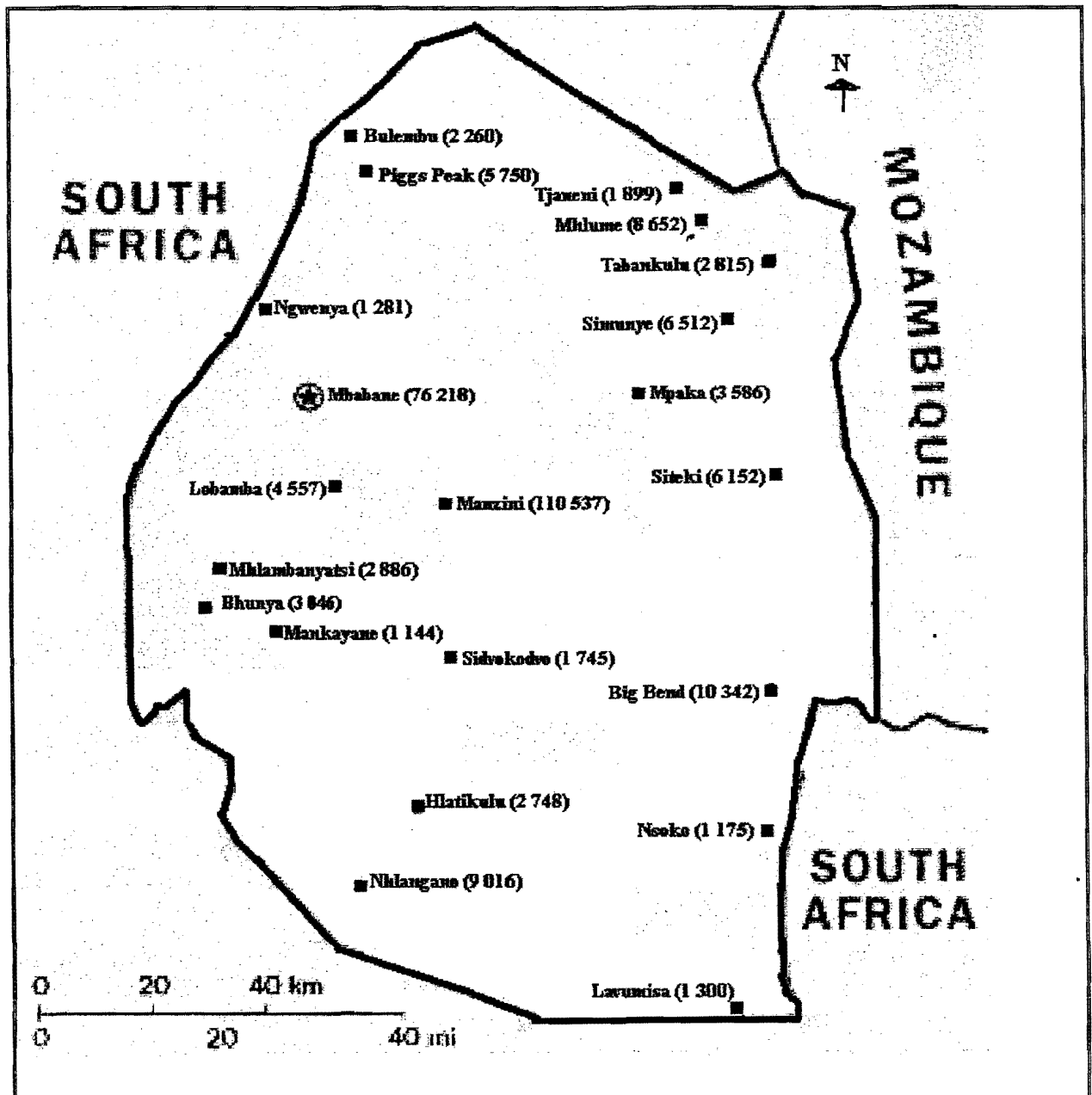


Figure 1: Urban Settlements and Population in Swaziland

Source: Swaziland Census Report (2007)

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

**QUESTION 2**

- a) With the aid of 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**

Discuss the importance of natural forests and the challenges they face as an ecosystem. (30 Marks)

**QUESTION 4**

Critically analyze the factors affecting the growth and development of cities. (30 Marks)

**QUESTION 5**

Explain the characteristic features of the population of Swaziland. (30 Marks)