

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

**FINAL EXAMINATION, MAY 2012
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: None

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

GEP 121: INTRODUCTION TO THE HUMAN ENVIRONMENT – MAY 2012**SECTION A: TECHNIQUES AND SKILLS (40 MARKS)
COMPULSORY****QUESTION 1**

- a) Define the following concepts:
- i. Lorenz curve (2 marks)
 - ii. Independent variable (2 marks)
 - iii. Labour force participation rate (2 marks)
 - iv. Rank size rule (2 marks)
 - v. Topology (2 marks)
- b) Outline the procedure for constructing a Lorenz curve. Do not draw the curve. (12 marks)
- c) Using the Beta and Planar gamma index (planar and non-planar) calculate the degree of connectivity of the places appearing in figure 1. (8 marks)
- d) Using an appropriate graphical technique represent the data on table 1 below. (10 marks)
- (40 Marks)**

**SECTION B: SHORT ANSWERS / ESSAYS (60 MARKS)
ANSWER ANY TWO QUESTIONS****QUESTION 2**

- a) Explain the importance of wetlands as an ecosystem. (15 marks)
- b) Using examples discuss the threats of wetlands. (15 marks)
- (30 Marks)**

QUESTION 3

- a) Using examples describe the internal structure of the city in terms of land use zones. (20 marks)
- b) 'Urban land uses, vary in intensity and type' Discuss the validity of the statement. (10 marks)
- (30 Marks)**

QUESTION 4

- a) Identify and define the components of population change. (6 marks)
- b) Using illustrations identify and explain two sophisticated measures of population change. (24 marks)
- (30 Marks)**

QUESTION 5

- a) Describe the nature of culture. (15 marks)
- b) Using examples explain the components of culture. (15 marks)
- (30 Marks)**

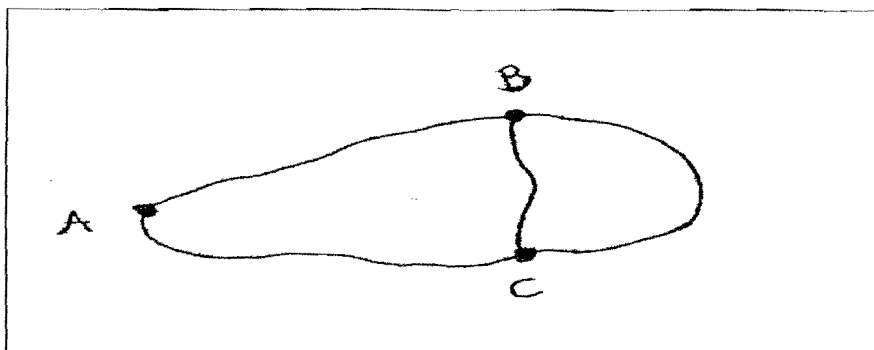


Figure 1: Routes between A, B, and C.

Source: Hypothetical

Table 1: Average sectoral expenditure in Swaziland between 2000/2001 and 2010/2011

Government sectors	Expenditure (Millions of Emalangeni)
Agriculture	120
Commerce, Industry and Trade	69
Economic Planning and Development	73
Education and Training	198
Finance	85
Foreign Affairs and Intl. Cooperation	45
Health	143
Home Affairs	35
Information and Communications Technology	41
Justice and Constitutional Affairs	70
Labour and Social Security	102
Housing and Urban Development	67
Natural Resources and Energy	44
Public Service	57
Public Works and Transport	107
Sports, Culture, and Youth Affairs	39
Tourism and Environmental Affairs	40

Source: Hypothetical