UNIVERSITY OF SWAZILAND

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

RE-SIT EXAMINATION, JULY 2018

B.A., B.Ed., B.Sc., BASS, JMC 3 (FT/PT)

TITLE OF PAPER: INTRODUCTION TO THE HUMAN ENVIRONEMNT

COURSE NUMBER: GEP112

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

GEP112: INTRODUCTION TO THE HUMAN ENVIRONMENT - JULY 2018

SECTION A: TECHNIQUES AND SKILLS   (40 MARKS)

COMPULSORY

QUESTION 1

a) Using examples, explain the four scales of measurement which are used in Geography.
(10 marks)

b) The USA population in the year 2007 was 281 421 906 and increased by 0.09% every year until the end of 2017. Calculate the increment during each year (both total population and increment during the year). Show these results in a table which is titled and labelled.
(10 marks)

c) City A has 280 000 people and City B has 98 000 people. The distance between the two cities is 20 km.
   i)   Calculate the amount of interaction between City A and B.   (2 marks)
   ii)   Which City has a higher attraction force?   (1 mark)
   iii) What are the assumptions of the Gravity Model?   (6 marks)
   iv)   How can you empirically verify interaction between cities?   (1 mark)

d) Outline the procedure for constructing a linear graph using any appropriate example of your choice. Do not draw the linear graph.   (10 marks)
(40 Marks)

Table 1: Number and types of registered motor vehicles in South Africa in 2012

Type of motor vehicle	Number of motor vehicles in 000's to nearest thousand
Motor cars	8 314
Mini-buses	150
Buses	35
Commercial vehicles	995
Motorcycles	289
Tractors	596
Total	**10 379**

Source: Hypothetical

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

QUESTION 2

a) Explain the geographical impact of religious beliefs.   (12 marks

b) Analyze the globalization debate.   (18 marks)

(30 Marks)

QUESTION 3

a) Discuss how cities destroy the existing microclimate of an environment and create new ones.
          (15 marks)

b) Explain the spatial growth model (Rostow-Taffee model) and its relevance to Africa.
          (15 marks)

(30 Marks)

QUESTION 4

a) Identify and explain the parameters that are essential when estimating the size of a resource reserve.   (12 marks)

b) Discuss the optimistic and pessimistic views regarding reserves of the Earth's non-renewable resources.   (18 marks).

(30 Marks)

QUESTION 5

a) Outline the measures considered when evaluating the climatic environment as a hazard.
          (14 marks)

b) Explain how human beings contribute to environmental hazards.   (16 marks)

(30 Marks)