# UNIVERISTY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING RE-SIT EXAMINATION, JULY 2017 B.A., B.Ed., B.Sc., BASS, JMC 3 (FT/PT)

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

COURSE NUMBER: GEP112/121

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

ANSWER ANY TWO QUESTIONS
EACH QUESTION CARRIES 30 MARKS

#### SPECIAL REQUIREMENTS: Graph paper

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

#### **GEP112/121: INTRODUCTION TO THE HUMAN ENVIRONMENT - JULY 2017**

#### SECTION A: TECHNIQUES AND SKILLS (40 MARKS) COMPULSORY

#### **QUESTION 1**

a)

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)

b) Using examples, explain four scales of measurement which are used in geographical data. (12 marks)
c) Calculate the percentages of males and females in Table 1 below. (6 marks)
d) Using an appropriate graphical technique, represent the data in Table 1 below. (12 marks)
(40 Marks)

Table 1: Age-sex population distribution of a hypothetical country

Age	In Thousands			Percentages	
	(1) Both	(2) Male	(3) Female	(4) Male	(5) Female
	sexes				
Below 5	20, 344	10,360	9,984		
5-9	20,697	10,538	10,159		
10 - 14	22,241	11,315	10,926		
15 - 19	25,220	12,805	12,415		
20 - 24	25,523	12,849	12,674		
25-29	23,626	11,801	11,825		
30 - 34	21,627	10,741	10,886		
35 - 39	18,008	8,904	9,104		
40 - 44	15,687	7,726	7,961		
45 - 49	15,094	7,393	7,701		
50 - 54	15,711	7,622	8,089		
55 - 59	15,614	7,481	8,133		
60 - 64	14,085	6,669	7,416		
65 - 69	12,781	5,902	6,879	· · · · ·	
70 - 74	10,797	4,853	5,944	2	
75 – 79	8,792	3,847	4,945		
80 - 84	5,934	3,019	2,915		
85+	4,439	1, 881	2,558		

Source: Hypothetical

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

## **QUESTION 2**

Explain the Epidemiological Transition model.

### **QUESTION 3**

a) Explain the dilemma regarding availability of non-renewable resources. (20 marks)

b) Explain the factors considered when estimating the size of resource reserves. (10 marks)

(30 Marks)

(30 Marks)

#### **QUESTION 4**

With reference to any towns and cities, explain how cities destroy the existing micro-climates of an environment and create new ones. (30 Marks)

#### **QUESTION 5**

Discuss the distinctive features of the population of Swaziland. (30 Marks)