UNIVERSITY OF SWAZILAND DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING

SUPPLEMENTARY EXAMINATION, JULY 2012 B.A., BSc., BASS, B. Ed.

TITLE OF PAPER:

INTRODUCTION TO THE PHYSICAL

ENVIRONMENT

COURSE NUMBER:

GEP 111

TIME ALLOWED:

THREE (3) HOURS

INSTRUCTIONS:

1. ANSWER THREE QUESTIONS

2. QUESTION 1 IS COMPULSORY

3. ILLUSTRATE YOUR ANSWERS WITH

EXAMPLES AND CLEARLY DRAWN DIAGRAMS

WHERE APPROPRIATE

ALLOCATION OF MARKS:

QUESTION 1 (COMPULSORY) CARRIES

40 MARKS WHILE THE REST CARRY 30

MARKS EACH

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

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SECTION A: TECHNIQUES AND SKILLS (COMPULSORY)

Question 1

- (a) Define the following:
 - (i) A map
 - (ii) Conjugate principal point
 - (iii) Satellite image
 - (iv) Map projection

(8 marks)

- (b) If the time is 12:00 midnight at the Greenwich Meridian, at what longitude will it be;
 - (i) 5:00 pm
 - (ii) 11:00 pm
 - (iii) 12:00 noon
 - (v) 0800 hrs

(8 marks)

- (c) Using the appropriate representation, display the data presented on Table 1 below. (10 marks)
- (d) Outline the steps involved in constructing a pie chart.

(14 marks)

[40 Marks]

Table 1: Foreign tourists from six countries visiting Swaziland in 2011

Country of origin	Number of tourists
Britain	123 700
Germany	49 924
The Netherlands	15 142
France	14 654
USA	48 725
Australia	15 104

Source: Hypothetical

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SECTION B: THEORY (ANSWER ANY TWO QUESTIONS)

Question 2:

Name all the known planets of the solar system and discuss the physical properties of terrestrial and gaseous planets respectively.

[30 Marks]

Question 3:

Erosion and weathering are permanent processes since the formation of the Earth. Discuss the obstacle why the solid Earth's surface materials have not yet disappeared into the oceans.

[30 Marks]

Question 4:

Discuss the motions of tides in the oceans and how tides contribute to the development of landforms.

[30 Marks]

Question 5:

Discuss why in the atmosphere currently the ozone layer is threatened, and how it may in future be better protected.

[30 Marks]