

UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING
FINAL EXAMINATION, MAY 2017
BA. Hums, B. Ed. & IDE

TITLE OF PAPER: PHYSICAL RESOURCES

COURSE NUMBER: GEP 212/216

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**

GEP212/216: PHYSICAL RESOURCES – MAY 2017

SECTION A: COMPULSORY

QUESTION 1

- a) Define the following terms:
- i. Fossil. (5 marks)
 - ii. Landslide. (5 marks)
- b) Explain the following processes and indicate their impact on the evolution of land forms.
- i. Divergent boundaries. (5 marks)
 - ii. Convergence boundaries. (5 marks)
- c) 'Swaziland currently generates about 20 per cent of its electricity and imports about 80 percent'. Discuss sustainable methods in which the country can reduce such over reliance on external sources of electricity. (20 marks)
(40 Marks)

SECTION B: ANSWER ANY TWO QUESTIONS

QUESTION 2

- a) What is ozone, discuss your answer in relation to:
- i. The role of ozone on earth. (15 marks)
 - ii. Ozone depletion substances and their control. (15 marks)
- (30 Marks)**

QUESTION 3

Discuss how physical resources of Swaziland have contributed to the economic growth of the country in the following sectors:

- (i) The mining sector. (15 marks)
 - (ii) The agricultural sector. (15 marks)
- (30 Marks)**

QUESTION 4

- a) Discuss the three processes through which rock metamorphosism can take place. (15 marks)
- b) Briefly discuss five properties of minerals. (15 marks)
- (30 Marks)**

QUESTION 5

Discuss the anthropogenic causes of climate change and illustrate how these can be reduced sustainably.

(30 Marks)