

**UNIVERSITY OF ESWATINI**  
**DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE AND PLANNING**  
**RESIT EXAMINATION, JULY 2019**  
**BA. Hums, B. Ed. & IDE**

**TITLE OF PAPER:           PHYSICAL RESOURCES**

**COURSE NUMBER:         GEP212**

**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: PHYSICAL RESOURCES – JULY 2019**

**SECTION A: COMPULSORY**

**QUESTION 1**

- a) Describe the properties of ozone and what role does it play on Earth. (10 marks)
- b) Discuss the anthropogenic causes of climate change and illustrate how these can be reduced sustainably. (30 marks)
- (40 Marks)**

**SECTION B: ANSWER ANY TWO QUESTIONS**

**QUESTION 2**

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

**QUESTION 3**

‘Eswatini 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. (30 Marks)

**QUESTION 4**

Discuss methods used to manage the following physical resources sustainably in Eswatini:

- a) Renewable resources (15 marks)
- b) Mineral deposits (15 marks)
- (30 Marks)**

**QUESTION 5**

Briefly discuss the following mass wasting processes as well as methods of preventing or minimising their occurrence.

- a) Creep (6 marks)
- b) Fall (6 marks)
- c) Slump (6 marks)
- d) Mudflow (6 marks)
- e) Landslide (6 marks)
- (30 Marks)**