

**UNIVERSITY OF SWAZILAND
DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL SCIENCE
AND PLANNING
FINAL EXAMINATION, MAY 2008
(BASS, BED, BAH)**

TITLE OF PAPER: PHYSICAL RESOURCES

COURSE CODE: GEP 216

TIME ALLOWED: THREE HOURS

**INSTRUCTIONS: ANSWER QUESTION ONE AND
ANY OTHER TWO QUESTIONS**

**MARKS ALLOCATED: QUESTION 1 CARRIES 40
MARKS. THE OTHER
QUESTIONS CARRY 30 MARKS
EACH**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATOR**

SECTION A

QUESTION 1 (COMPULSORY)

- a. Describe the weathering processes which are dominant in the low latitudes?
(15 marks)
 - b. Explain how plate movements may result in the destruction of the lithosphere and the creation of new plates.
(10 marks)
 - c. Describe how any three anthropogenic activities are contributing to climate change.
(15 marks)
- (40 marks)**

SECTION B

ANSWER ANY TWO QUESTIONS

QUESTION 2

- a. Discuss the role of pressure and Coriolis force on wind speed and direction.
(15 marks)
 - b. Describe the various ways through which atmospheric air may become saturated.
(15 marks)
- (30 marks)**

QUESTION 3

Discuss the main forces which cause plates to move and the dominant tectonic features that could occur at the various boundaries.
(30 marks)

QUESTION 4

Using diagrams, describe how magma in the lithosphere may end up as an igneous, sedimentary or metamorphic rock on the surface of the earth.
(30 marks)

QUESTION 5

- a. Using a well labeled diagram, illustrate the various temperature strata of the atmosphere.
(15 marks)
 - b. Explain why the earth experiences differences in rainfall.
(15 marks)
- (30 marks)**