



UNIVERSITY OF JOHANNESBURG

DEPARTMENT OF GEOGRAPHY, ENVIRONMENTAL MANAGEMENT & ENERGY STUDIES

MODULE:	GR2BFET Geography for Education Introduction to Geography 2B
CAMPUS:	APK
EXAM:	NOVEMBER 2019

DATE: 15 NOVEMBER 2019

SESSION: 08H30 – 10H30

ASSESSORS:

**Ms D Greenberg
Ms L Stockigt**

MODERATORS:

**Ms. M Rabumbulu
Dr I Sinthumule**

DURATION: 2 Hours

MARKS: 100

PAGES INCLUDING COVER: 5

Please read the following instructions carefully:

1. This paper contains two sections – SECTION A and SECTION B - Answer each section in a separate answer book
2. Answer ALL questions in the answer books provided
3. Please number your answers clearly
4. This exam paper may not be removed from the exam venue

SECTION A – PHYSICAL GEOGRAPHY**QUESTION 1 – MULTIPLE CHOICE**

1.1) The science that specifically studies the origin, evolution, form, and spatial distribution of landforms is

- A) geology.
- B) geography.
- C) geomorphology.
- D) environmental chemistry.

1.2) The dynamic equilibrium model refers to

- A) a balancing act between tectonic uplift and rates of denudation by weathering and erosion in a given landscape.
- B) a theory involving the cyclic or evolutionary development of a landscape.
- C) a sequential development of landforms.
- D) an important concept first stated by William Morris Davis.

1.3) The uplift of mountains is caused by

- A) endogenic processes.
- B) aggradation.
- C) denudation.
- D) exogenic forces.

1.4) The process that breaks down rock at the Earth's surface through disintegration of rocks into mineral particles or dissolving it into water is known as

- A) erosion.
- B) mass movement.
- C) landmass denudation.
- D) weathering.

1.5) The consolidated or unconsolidated materials from which soils develop is known as

- A) bedrock.
- B) regolith.
- C) parent material.
- D) outcrop.

1.6) The fact that water expands as much as 9% of its volume as it freezes is the basis of

- A) oxidization.
- B) exfoliation.
- C) salt crystal growth.
- D) frost wedging.

1.7) The nucleus of old crystalline rock in each of the principal continental masses is called a

- A) basalt mass.
- B) continental shield, or craton.
- C) mountain mass.
- D) composite zone.

- 1.8) The geologic cycle is fueled by
- A) solar energy.
 - B) the Earth's internal heat.
 - C) both solar energy and the Earth's internal heat.
 - D) neither solar energy and the Earth's internal heat.
- 1.9) Which of the following layers of Earth is liquid and is responsible for producing Earth's magnetic field?
- A) inner core
 - B) outer core
 - C) lower mantle
 - D) asthenosphere
- 1.10) Boundaries between intervals of the geological time scale are determined by
- A) dividing the time range of the interval by the number desired subdivisions, thereby creating equal intervals between the divisions.
 - B) Major events in the Earth's history, such as major extinctions.
 - C) using a quantile method whereby the number of years in each subdivision is determined by dividing the number of years by the desired number of classes.
 - D) Climatic periods based on paleoclimatological reconstructions.

[10]

QUESTION 2 – SHORT QUESTIONS (give an example where applicable)

- 2.1) Define: Drainage density (2)
- 2.2) What are the two driving forces of fluvial systems? (2)
- 2.3) What is a cliff? (1)
- 2.4) What is a Mudflow? (1)
- 2.5) What is a watershed? (1)
- 2.6) What is a fault plane? (1)
- 2.7) Describe a nickpoint (2)

[10]

QUESTION 3 - LONG QUESTIONS

3.1) Name the three main biologically distinct zones of the Karoo (3)

3.2) Name and briefly describe the volcanic eruption pictured in the figure bellow (7)



[10]

QUESTION 4 – ESSAY

In detail, discuss the Kalahari Desert. Include its geography, physical features, soils and climate.

[20]

SUB TOTAL SECTION A [50]

SECTION B – HUMAN GEOGRAPHY**QUESTION 1**

1.1) What are the seven debates around alternative development in Africa, write one brief sentence outlining each debate. (7)

1.2) Which of these debates do you believe is most important to Africa's development and why? (3)

[10]

QUESTION 2

During the Berlin conference of 1884 to 1885, Africa was carved up into various colonial regions.

2.1) Explain the differences between European and African views on territoriality, boundaries and land usage. (3)

2.2) Explain the three motivations for colonial imperialism in Africa. (6)

2.3) How could colonialism happen, explain the three key factors. (6)

[15]

QUESTION 3

"Africa's massive uptake of information technology has caught the world by surprise, Africa's mobile revolution has been nothing short of spectacular in transforming economic, social and political activities" (Grant, 2015:135).

Write an essay critically discussing this statement. [15]

QUESTION 4

Critically explain the concepts and principals of urban sustainability and rethinking urbanism [10]

SUB TOTAL SECTION B [50]

TOTAL [100]