

SMARTWIZ

GRADE10 GEOGRAPHY EXAM

MARKS: 100

MARKS	

TIME: 2 hours

SCHOOL _____

CLASS (e.g. 4A) _____

SURNAME _____

NAME _____

Instructions for Learners:

- Read all the instructions carefully before you begin the exam.
- Write your name and learner number clearly on the answer sheet/booklet.
- Answer all the questions unless otherwise instructed.
- Show all your work/calculations where applicable.
- Write neatly and legibly.
- Use only blue or black ink. *Do not use correction fluid or tape.*
- No electronic devices (calculators, phones, etc.) are allowed unless explicitly permitted.
- Raise your hand if you have any questions.
- Do not talk to other learners during the exam.
- Any form of cheating will lead to disqualification.

This test consists of 6 pages including the cover page.

SECTION A: MULTIPLE CHOICE (10 x 1 = 10 marks)

Choose the correct answer and write only the letter (A-D) next to the question number.

1.1 Which type of rainfall occurs when moist air rises over a mountain?

- A. Convectional
 - B. Orographic
 - C. Cyclonic
 - D. Frontal
-

1.2 What is the name of the current that flows along the east coast of South Africa?

- A. Benguela Current
 - B. Agulhas Current
 - C. Mozambique Current
 - D. Canary Current
-

1.3 Which of the following is NOT a major natural resource in South Africa?

- A. Gold
 - B. Diamonds
 - C. Timber
 - D. Oil
-

1.4 What is the main cause of earthquakes?

- A. Volcanic eruptions
 - B. Tectonic plate movement
 - C. Hurricanes
 - D. Soil erosion
-

1.5 Which soil type is most fertile and suitable for farming?

- A. Sandy
 - B. Clay
 - C. Loam
 - D. Rocky
-

1.6 The term 'urbanization' means:

- A. Movement of people from rural to urban areas
- B. Growth of forests

- C. Deforestation
D. Soil erosion
-

1.7 Which of the following is an effect of deforestation?

- A. Increased rainfall
B. Soil erosion
C. Soil formation
D. Flood prevention
-

1.8 The biggest desert in Africa is the:

- A. Kalahari Desert
B. Sahara Desert
C. Namib Desert
D. Karoo Desert
-

1.9 What is a watershed?

- A. Area where rivers meet the ocean
B. Land area that drains into a river or stream
C. Underground water source
D. A type of soil
-

1.10 Which of the following is an example of a renewable resource?

- A. Coal
B. Oil
C. Wind energy
D. Natural gas
-
-

SECTION B: MATCHING ITEMS (5 x 1 = 5 marks)

Match the items in Column A with the correct description in Column B.

Column A	Column B
2.1 Delta	A. Landform at the mouth of a river
2.2 Fault	B. Crack in the Earth's crust
2.3 Tsunami	C. Large ocean wave caused by underwater quake
2.4 Leaching	D. Removal of nutrients from soil by water
2.5 Confluence	E. Point where two rivers meet

- 2.1 _____
- 2.2 _____
- 2.3 _____
- 2.4 _____
- 2.5 _____

SECTION C: TRUE OR FALSE (5 x 1 = 5 marks)

Write TRUE or FALSE. If false, correct the statement.

3.1 The Richter scale measures the strength of an earthquake.

3.2 Desertification improves soil fertility in dry areas.

3.3 The Equator passes through South Africa.

3.4 Tropical rainforests have poor soil quality due to heavy rainfall.

3.5 The primary sector of the economy involves manufacturing goods.

SECTION D: SHORT QUESTIONS (40 marks)

4.1 Define the term "ecosystem."

4.2 Name and explain three factors that affect climate.

4.3 Describe two causes and two effects of soil erosion.

Causes:

Effects:

4.4 Explain the difference between renewable and non-renewable resources.

4.5 Describe how mining affects the environment.

SECTION E: ESSAY QUESTIONS (40 marks)

Answer ONE of the following questions:

5.1 Discuss the causes, effects, and solutions to urbanization problems in South Africa.

OR

5.2 Explain the water cycle and discuss its importance to the environment.

TOTAL: 100 MARKS



MEMO

SECTION A: MULTIPLE CHOICE (10 x 1 = 10 marks)

- 1.1 B. Orographic
 - 1.2 B. Agulhas Current
 - 1.3 D. Oil
 - 1.4 B. Tectonic plate movement
 - 1.5 C. Loam
 - 1.6 A. Movement of people from rural to urban areas
 - 1.7 B. Soil erosion
 - 1.8 B. Sahara Desert
 - 1.9 B. Land area that drains into a river or stream
 - 1.10 C. Wind energy
-

SECTION B: MATCHING ITEMS (5 x 1 = 5 marks)

- 2.1 A. Landform at the mouth of a river
 - 2.2 B. Crack in the Earth's crust
 - 2.3 C. Large ocean wave caused by underwater quake
 - 2.4 D. Removal of nutrients from soil by water
 - 2.5 E. Point where two rivers meet
-

SECTION C: TRUE OR FALSE (5 x 1 = 5 marks)

- 3.1 TRUE
 - 3.2 FALSE – Desertification causes land degradation and loss of fertility.
 - 3.3 FALSE – The Equator does NOT pass through South Africa.
 - 3.4 TRUE
 - 3.5 FALSE – The primary sector involves natural resource extraction, not manufacturing.
-

SECTION D: SHORT QUESTIONS (40 marks)

4.1 Ecosystem: A community of living organisms interacting with each other and their physical environment.

4.2 Factors affecting climate:

- Latitude: Closer to the equator means warmer climate.
- Altitude: Higher altitudes are cooler.
- Distance from the sea: Coastal areas have milder climates than inland areas.

4.3 Causes of soil erosion:

- Deforestation
- Overgrazing

Effects of soil erosion:

- Loss of fertile topsoil
- Reduced agricultural productivity

4.4 Renewable resources are those that can be replenished naturally (e.g., solar energy, wind), while non-renewable resources are finite and cannot be replaced once used (e.g., coal, oil).

4.5 Mining impacts:

- Habitat destruction
- Pollution of water sources
- Soil erosion

SECTION E: ESSAY QUESTIONS (40 marks)

Marking guideline for either essay:

- Clear explanation of causes, effects, and/or process (15 marks)
- Relevant examples or case studies (10 marks)
- Logical structure, spelling, and grammar (10 marks)
- Conclusion and personal insight (5 marks)

TOTAL: 100 MARKS