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 × 1 = 10 MARKS)

Choose the correct option. Write only the letter (A–D) next to the question number.

1.1 Which of the following is a non-renewable resource?
A. Solar power
B. Wind
C. Coal
D. Geothermal energy

1.2 The layer of the atmosphere where weather occurs is:
A. Stratosphere
B. Troposphere
C. Mesosphere
D. Thermosphere

1.3 Which of the following is an impact of deforestation?
A. Decreased carbon dioxide
B. Increased biodiversity
C. Soil erosion
D. Decrease in desertification

1.4 The map feature that shows directions is called:
A. Legend
B. Grid
C. Scale
D. Compass rose

1.5 A natural hazard caused by movement of tectonic plates is a:
A. Hurricane
B. Earthquake
C. Flood
D. Drought

1.6 Which country is known for a desert climate?
A. Brazil
B. Canada

C. Egypt
D. Indonesia

1.7 GIS stands for:
A. Geographical International Services
B. Global Information System
C. Geographic Information System
D. Global Internet Server

1.8 A topographic map shows:
A. Political boundaries
B. Climate zones
C. Natural features and elevation
D. Population density

1.9 What is the main cause of rising sea levels?
A. Earthquakes
B. Melting ice caps
C. Volcanic eruptions
D. Air pressure changes

1.10 Which of the following is an example of a pull factor in migration?
A. War
B. Drought
C. Job opportunities
D. Natural disasters

SECTION B: MATCHING ITEMS (5 × 1 = 5 MARKS)

Match Column A with Column B. Write only the letter next to the number.

Column A	Column B
2.1 Condensation	A. Rapid movement of water
2.2 Urbanisation	B. Water vapor changes to liquid
2.3 Flash flood	C. Soil, rock and vegetation breakdown
2.4 Erosion	D. Growth of towns and cities
2.5 Drought	E. Extended dry period

2.1 _____
2.2 _____
2.3 _____
2.4 _____
2.5 _____

SECTION C: TRUE OR FALSE (5 × 1 = 5 MARKS)

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

3.1 The stratosphere lies above the troposphere.

3.2 Earthquakes are measured using the Richter scale.

3.3 The Equator is located at 90° latitude.

3.4 Mangroves are commonly found in desert areas.

3.5 Climate describes short-term atmospheric conditions.

SECTION D: SHORT QUESTIONS (40 MARKS)

QUESTION 4: WEATHER AND CLIMATE (10 MARKS) 4.1 Define the term "climate". (2)

4.2 Describe two differences between weather and climate. (4)

4.3 Name two instruments used to measure weather and state what they measure. (4)
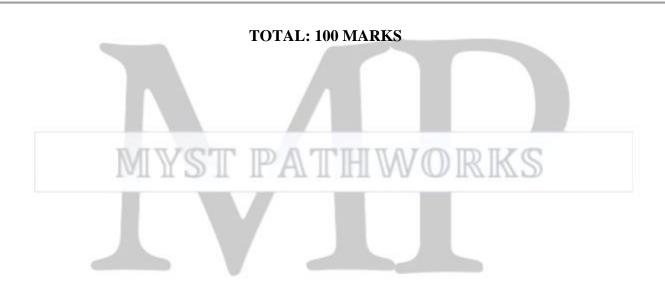
QUESTION 5: NATURAL DISASTERS (10 MARKS) 5.1 What is a natural disaster? (2)

5.2 Explain any two ways communities can prepare for earthquakes. (4)

5.3 Give two negative effects of flooding. (4)

QUESTION 6: MAP SKILLS (10 MARKS) 6.1 What is the purpose of a map scale? (2)

6.2 Explain the difference between a small-scale and large-scale map. (4)

6.3 Why are contour lines important on a topographic map? (4)

QUESTION 7: POPULATION GEOGRAPHY (10 MARKS) 7.1 What is population density? (2)

7.2 List any three problems caused by overpopulation. (3)

7.3 Suggest two strategies to reduce population growth. (2)

7.4 Give three examples of push factors. (3)

_____
_____
_____

SECTION E: ESSAY (30 MARKS)

QUESTION 8
Discuss the causes, impacts, and solutions to global warming. Your essay should include:

- Definition of global warming
- Human activities causing global warming
- Effects on the environment and people
- Possible solutions governments and individuals can adopt

TOTAL: 100 MARKS

MEMO

SECTION A: MULTIPLE CHOICE (10 × 1 = 10 MARKS)

1.1 C. Coal
1.2 B. Troposphere
1.3 C. Soil erosion
1.4 D. Compass rose
1.5 B. Earthquake
1.6 C. Egypt
1.7 C. Geographic Information System
1.8 C. Natural features and elevation
1.9 B. Melting ice caps
1.10 C. Job opportunities
✅ [10 MARKS]

SECTION B: MATCHING ITEMS (5 × 1 = 5 MARKS)

2.1 B. Water vapor changes to liquid
2.2 D. Growth of towns and cities
2.3 A. Rapid movement of water
2.4 C. Soil, rock and vegetation breakdown
2.5 E. Extended dry period
✅ [5 MARKS]

SECTION C: TRUE OR FALSE (5 × 1 = 5 MARKS)

3.1 TRUE
3.2 TRUE
3.3 FALSE – The Equator is located at 0° latitude.
3.4 FALSE – Mangroves are found in tropical coastal areas, not deserts.
3.5 FALSE – Climate describes long-term atmospheric conditions.
✅ [5 MARKS]

SECTION D: SHORT QUESTIONS (40 MARKS)

QUESTION 4: WEATHER AND CLIMATE (10 MARKS)
4.1 The average weather conditions of a region over a long period. (2)
4.2 Weather is short-term and changes daily; climate is long-term and stable over time. (4)
4.3 Thermometer (temperature), Rain gauge (rainfall). (4)
✅ [10 MARKS]

QUESTION 5: NATURAL DISASTERS (10 MARKS)

5.1 A sudden natural event that causes damage or loss of life. (2)

5.2 Earthquake drills; securing heavy furniture. (4)

5.3 Loss of life; damage to infrastructure. (4)

✅ [10 MARKS]

QUESTION 6: MAP SKILLS (10 MARKS)

6.1 To show the relationship between map distance and actual distance. (2)

6.2 Small-scale maps show large areas with less detail; large-scale maps show small areas with more detail. (4)

6.3 They indicate elevation and terrain features. (4)

✅ [10 MARKS]

QUESTION 7: POPULATION GEOGRAPHY (10 MARKS)

7.1 Number of people per unit area. (2)

7.2 Overcrowding, unemployment, lack of resources. (3)

7.3 Education and family planning. (2)

7.4 War, lack of jobs, poor healthcare. (3)

✅ [10 MARKS]

SECTION E: ESSAY (30 MARKS)

QUESTION 8 SAMPLE MEMO RESPONSE

- Global warming: gradual increase in Earth's temperature due to greenhouse gases. (3)
- Causes: burning fossil fuels, deforestation, industrial pollution. (6)
- Impacts: melting ice caps, rising sea levels, extreme weather, health issues. (6)
- Solutions: renewable energy, afforestation, international agreements (e.g., Paris Agreement), reduce carbon footprint. (10)
- Introduction and conclusion. (5)
  ✅ [30 MARKS]

TOTAL: 100 MARKS