



Subject: Grade 10 Geography
Topic: Geography: Term 2 - Exam 1
Total: 152 Marks

Name: _____

Date: _____

Question 1: Multiple Choice

4 marks

Which type of rock are fossils found in?

- | | |
|----------|-------------|
| A | Magnetic |
| B | Metamorphic |
| C | Igneous |
| D | Sedimentary |

Question 2: Multiple Choice

4 marks

Which type of volcano is the **broadest** and has the **gentlest slopes**?

- | | |
|----------|---------------------|
| A | Composite volcano |
| B | Shield volcano |
| C | Cinder cone volcano |
| D | Stratovolcano |

Question 3: True/False

2 marks

Tectonic plates move because of **convection currents** in the Earth's **mantle**.

TRUE

FALSE



Question 4: Please Fill In The Blanks

8 marks

A series of faults can lead to the formation of (1) mountains and (2) valleys. This depends on whether a block of land is forced (3) by tectonic stress or slips (4) along a fault line. The type of stress, the movement of the rock blocks, and the (5) of the rocks determine the resulting landscape.

Possible Answers: rift | properties | block | tectonic | big | steep | upwards | downwards

1	
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Question 5: Please Fill In The Blanks

10 marks

Faulting occurs along all (1) boundaries because these are the most (2) parts of the Earth's (3). Stress builds up due to the (4) movement of plates, and the (5) of the crust determines whether earthquakes or fault-block landforms develop.

Possible Answers: strength | mantle | stable | plate | core | active | lithosphere | relative

1	
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Question 6: True/False

2 marks

All earthquakes are caused by human activities.

TRUE	FALSE
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Question 7: Multiple Choice

4 marks

Which **type of rainfall** is associated with the **movement of air over mountain ranges**?

- | | |
|----------|-----------------------------------|
| A | Convectional |
| B | Relief (also known as orographic) |
| C | Frontal |
| D | Cyclonic |
-

Question 8: Multiple Choice

4 marks

What is the primary effect of a low pressure system on the weather?

- | | |
|----------|--|
| A | It brings clear skies and calm weather. |
| B | It causes cloudy skies and often stormy weather. |
| C | It brings cold, dry air. |
| D | It causes temperatures to rise quickly. |
-

Question 9: Text Input

3 marks

What is the name of the zone around the Pacific Ocean that experiences many earthquakes and volcanic eruptions?

Give **THREE** words only.

--

Question 10: Text Input

3 marks

What is the **downward fold** in **rock strata** called?

Give only ONE word.

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Question 11: Please Fill In The Blanks

6 marks

In the rock cycle, sedimentary rocks can be transformed into (1) rocks due to extreme (2) and (3).

Select the last two answers in the order that they appear on the list.

Possible Answers: light | pressure | water | heat | layers | flow | igneous | metamorphic | sedimentary

1	
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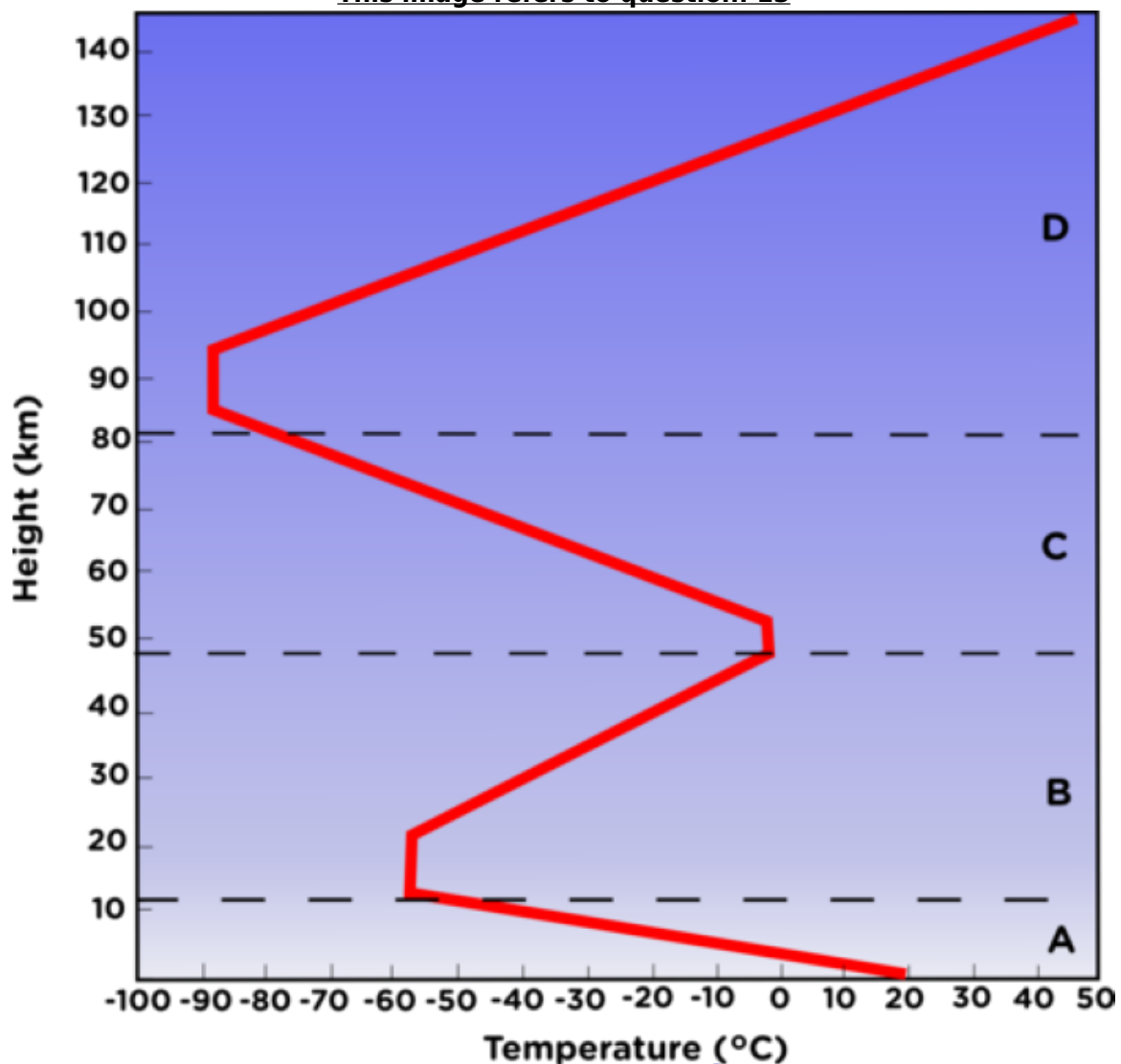
Question 12: True/False

2 marks

Ocean floor spreading creates **new oceanic crust** at mid-ocean ridges.

TRUE	FALSE
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This image refers to question: 13



Question 13: Please Fill In The Blanks

2 marks

The graph illustrates the **layers of the atmosphere** (labelled A, B, C and D) based on their **height above the Earth's surface** and the **corresponding temperature changes**.

Select what is happening to the temperature in each layer.

The temperature is (1) in layer A.

The temperature is (2) in layer B.

The temperature is (3) in layer C.

The temperature is (4) in layer D.

Possible Answers: increasing | neither increasing nor decreasing | decreasing | increasing and decreasing at the same time

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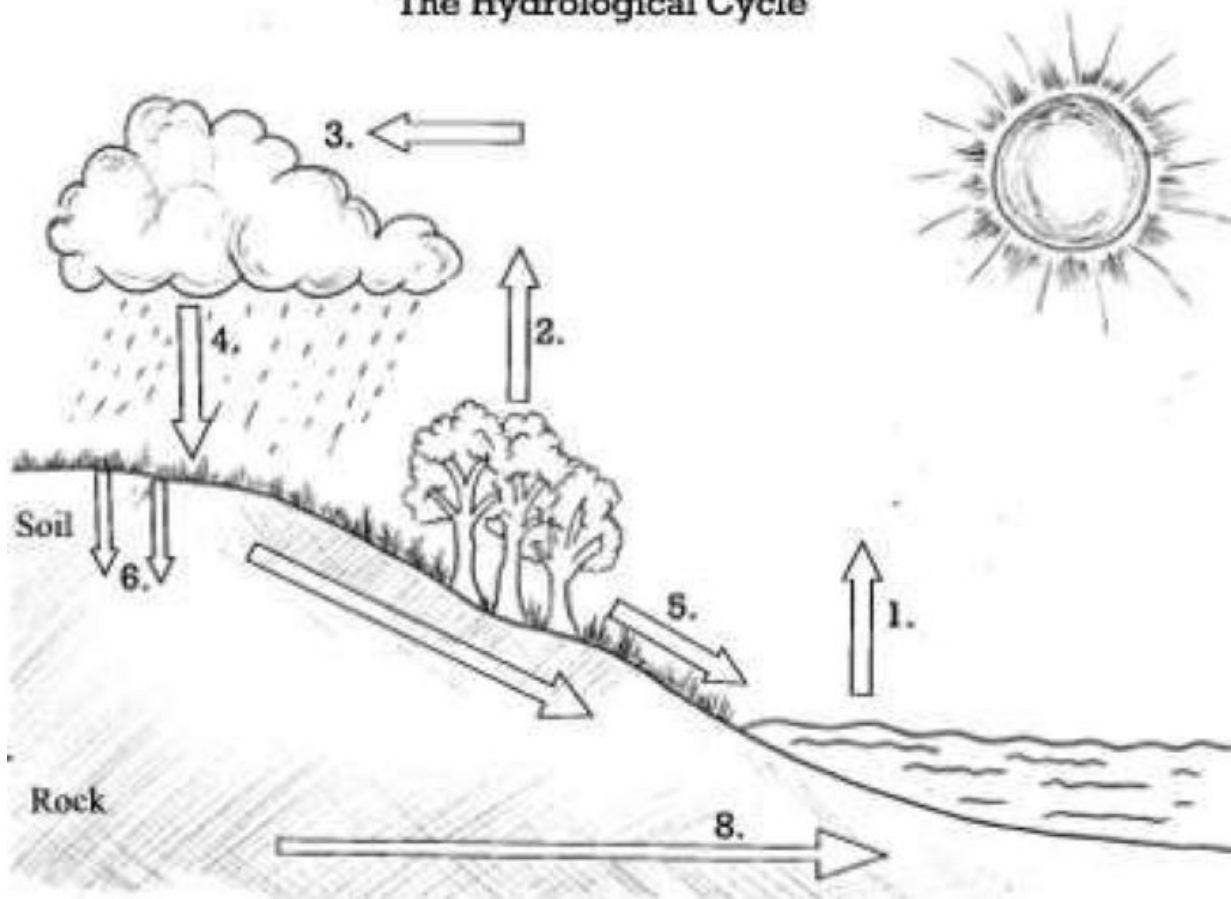
Question 14: Multiple Choice

4 marks

Which statement best explains **why oceanic crust subducts under continental crust** at a **convergent boundary**?

- | | |
|----------|--|
| A | Oceanic crust is denser than continental crust. |
| B | Oceanic crust is thicker than continental crust. |
| C | Oceanic crust is made of lighter materials than continental crust. |
| D | Continental crust is denser and sinks below oceanic crust. |
-

This image refers to question: 15
The Hydrological Cycle



Question 15: Text Input

3 marks

Look at the diagram. Which **process** would **increase** if **temperatures rise significantly**?

Give your answer as the **NUMBER only**, as shown on the diagram. Do NOT give the name of the process.

Question 16: True/False

2 marks

The **crater** of a volcano is always **located at the base**.

TRUE

FALSE

Question 17: Please Fill In The Blanks

10 marks

Earthquakes can occur at different types of plate boundaries. At (1) boundaries, plates move apart, while at (2) boundaries, plates slide past one another. The sudden release of (3) along a (4) causes seismic waves that lead to shaking on the surface. By comparing these boundaries, explain why earthquakes at (5) boundaries are often more destructive than those at (6) boundaries.

Possible Answers: noise | energy | fold | transform | fault | divergent | convergent

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6	

Question 18: True/False

2 marks

Latent heat, also known as **hidden heat**, is the energy **needed to change the state** of a substance as well as **changing its temperature**.

☐ TRUE☐ FALSE**Question 19: Multiple Choice**

4 marks

Which of the following is **NOT** a piece of **evidence for Continental Drift**?

- | | |
|---|--|
| A | Matching fossils across continents. |
| B | Identical rock formations on different continents. |
| C | GPS tracking of plate movement. |
| D | The shape of coastlines fitting together. |

Question 20: Multiple Choice

4 marks

Which **landform** is associated with **divergent boundaries**?

- | | |
|---|----------------------|
| A | Deep-sea trenches |
| B | Volcanic island arcs |
| C | Rift valleys |
| D | Fold mountains |

Question 21: True/False

2 marks

When a synoptic map shows a warm front approaching, you can conclude that the area will experience thunderstorms within the next hour.

TRUE**FALSE****Question 22: Multiple Choice**

4 marks

Which symbol on a synoptic weather map indicates a cold front?

- | | |
|----------|--|
| A | Line with semicircles |
| B | Line with triangles |
| C | Line with both semicircles and triangles |
| D | Dashed line |

Question 23: Please Fill In The Blanks

4 marks

The Earth's core is divided into the outer core, which is (1) and the inner core, which is (2).

Possible Answers: soft | liquid | hard | gas | solid

1**2****Question 24: True/False**

2 marks

Mantle convection currents are the primary force driving the movement of tectonic plates.

TRUE**FALSE****Question 25: Text Input**

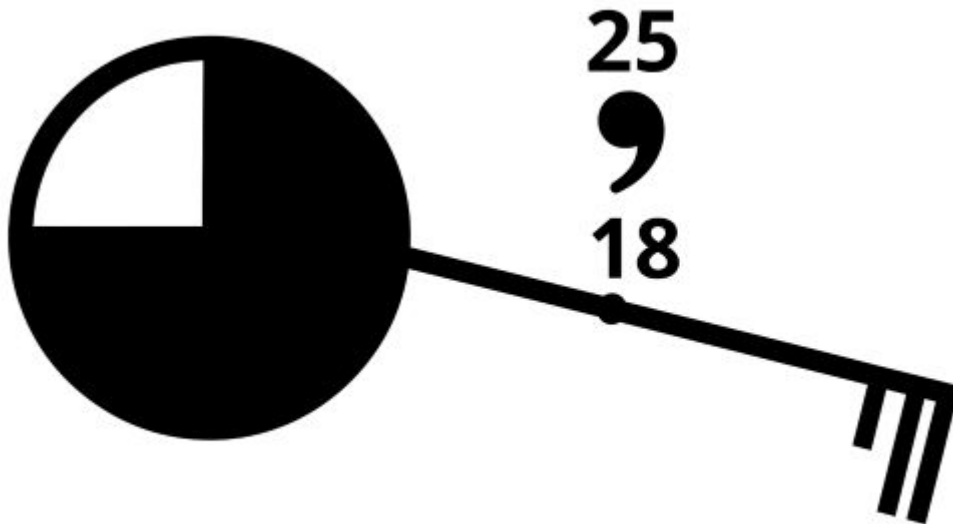
3 marks

Which **process in insolation** involves the Earth's surface **retaining** solar energy, causing the surface to warm?

Give **ONE word** only.

--

This image refers to question: 26



Question 26: Text Input

3 marks

What is the wind speed (in knots) shown on the station model?

Give your answer as a **number only**.

Question 27: Multiple Choice

4 marks

A geologist studies a mountain region and notices that some rock layers are bent into arches while nearby layers have fractured and shifted along cracks. Based on these observations, which statement best evaluates the main difference between folding and faulting?

- | | |
|----------|--|
| A | Folding occurs when rocks bend under stress without breaking, while faulting occurs when rocks fracture and move along a plane, and both processes shape landscapes differently. |
| B | Folding only occurs in soft rocks, while faulting only occurs in hard rocks. |
| C | Folding produces anticlines and synclines, while faulting only produces valleys. |
| D | Folding is caused by sudden stress, while faulting is caused by long-term stress. |

Question 28: Text Input

3 marks

What is the one-word term used for **molten (liquid) rock** that is **below the surface**?

Question 29: Text Input

3 marks

What is the molten rock beneath the Earth's surface called?

Give only **ONE** word.

Question 30: True/False

2 marks

Folding can occur in both soft and hard rocks if the rocks are subjected to high temperature and pressure deep within the Earth and the stress is applied slowly over long periods.

TRUE**FALSE****Question 31: Text Input**

3 marks

What type of waves are the fastest and arrive first during an earthquake?

Give **ONE** word only.

Question 32: Please Fill In The Blanks

4 marks

The term "isobar" refers to a line on a synoptic weather map connecting points of equal (1) , whereas "isotherm" connects points of equal (2) .

Possible Answers: temperature | pressure | height | wind speed | precipitation

1**2**

Question 33: Please Fill In The Blanks

10 marks

Faults form due to the (1) of rocks under (2) stress, often along zones of weakness, while folds form due to the (3) of rocks under (4) stress over long periods. The type of stress and the (5) of the rocks determine whether they fracture or bend.

Possible Answers: slow | bending | sudden | pressure | properties

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Question 34: Multiple Choice

4 marks

What does the Richter scale measure?

- | | |
|----------|-------------------------------------|
| A | The magnitude of an earthquake. |
| B | The temperature of the mantle. |
| C | The speed of tsunami waves. |
| D | The time before an earthquake hits. |

Question 35: Please Fill In The Blanks

4 marks

In the Southern Hemisphere, winds around a high pressure system circulate (1) , while around a low pressure system, they circulate (2) .

Possible Answers: left | horizontally | clockwise | upwards | anticlockwise | vertically | downwards

1	
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2	
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Question 36: Text Input

3 marks

Sandstone, shale, limestone, and coal are examples of what type of rock?

Give only **ONE** word (Be careful of spelling).

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Question 37: True/False

2 marks

Isobars connect points of equal air pressure.

This image refers to question: 38

**Question 38: True/False**

2 marks

A **syncline** has limbs that **dip toward the centre**.

Question 39: Text Input

3 marks

When **rocks break under stress** instead of bending, a ... forms.

Give only ONE word.

Question 40: Please Fill In The Blanks

4 marks

The opening through which lava erupts is called a (1) and the bowl-shaped feature at the top is the (2) .

Possible Answers: crater | hole | vent | wall | cylinder

1	
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2	
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Total: 152 Marks