SUPERVISOR'S USE ONLY

91007



KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

Level 1 Geography, 2016

91007 Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s)

9.30 a.m. Wednesday 16 November 2016 Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s).	Demonstrate in-depth geographic understanding of environments that have been shaped by extreme natural event(s).	Demonstrate comprehensive geographic understanding of environments that have been shaped by extreme natural event(s).

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–12 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Low Achievement

TOTAL 9

INSTRUCTIONS

In the box below, name ONE type of **extreme natural event**, and an **environment case study** (**studies**) in which it has occurred, that you will use to answer ALL of the questions in this booklet.

Extreme natural event: Earthquake

Environment case study (studies): Haiti 2010 Earthquake

QUESTION ONE: Natural Processes

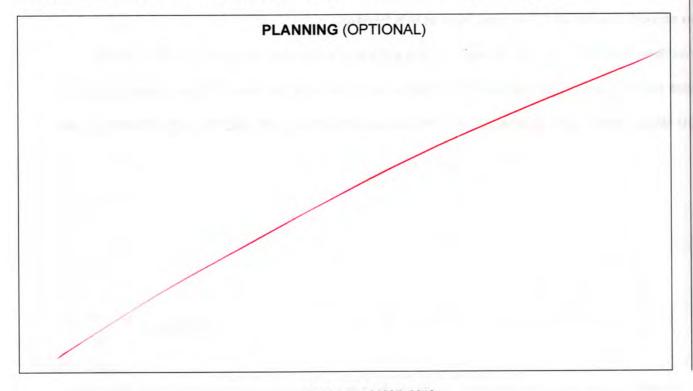
Read the geographic concept below and refer to it when answering this question.

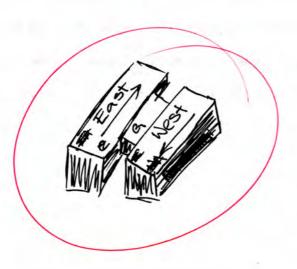
Geographic Concept

Processes are a sequence of actions, natural and / or cultural, that shape and change environments, places, and societies. Processes vary in time and space, and in magnitude (size) and frequency.

Fully explain the natural processes that operated to produce your chosen extreme natural event named above.

In your answer, include the geographic concept of processes, with integrated detailed supporting evidence from your case study (studies), and relevant supporting diagrams and/or maps.





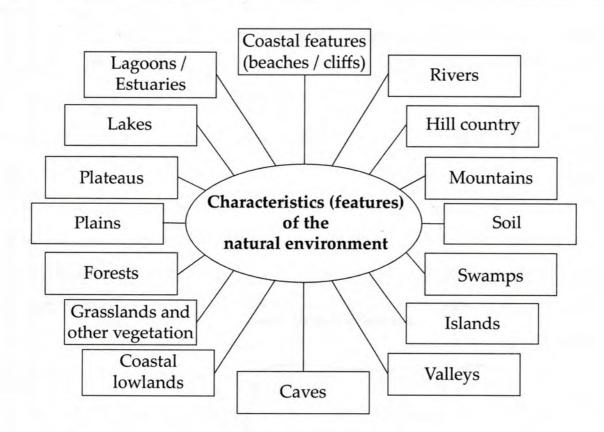
there are nine major tectonic plotes on the surface of the earth's mantle, which are controlled by convection currents inside the mantle that rotate either clockwise or anti-clockwise, which dictates the path the plotes above take. Earthquakes are caused by the sudden movement of these plates, or the build up of stress caused by their constant movement. The Gronâve micro-prote, on which that is situated, is a tectonic plate in between the transform plate boundary of the North American and Carribean plates. As the North American plate travels west and the Carribean travels East, stress builds up in the Gronâve plate, and is cleased on a build thrust faultline called the leagune faultline. The previously unrecognised faultline is 16 km long, tocated on the South East Periwana of Haiti, near the city of Leagune. The focus is 18 km deep below the epicentre, 25 km west south hed of the capital, Port-an-Prince

Seismic waves are released following an earthquake, first Primary, or P, waves, then Secondary, or S, waves and finally L waves. These waves are the stress energy being released from the earth, the proves waves. Wavelling the fastest and the L waves the slowest but the most headly. Without these processes, an earthquake would be unable to occur.

Read the geographic concept below and refer to it, as well as the diagram, when answering this question.

Geographic Concept

Change involves any alteration to the natural environment. Change can be spatial and / or temporal. Change is a normal process in the natural environment. It occurs at varying rates, at different times, and in different places.



(a) Identify TWO characteristics from the diagram above that were affected by your extreme natural event.

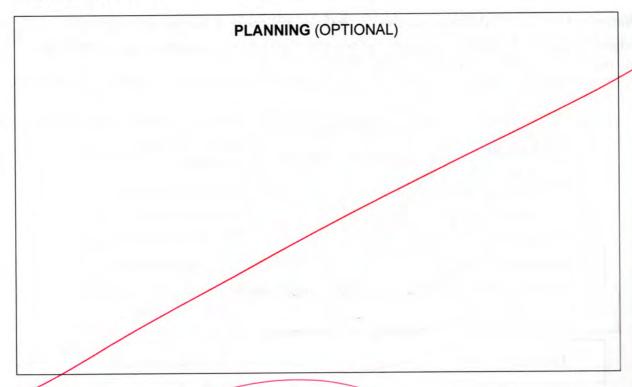
Characteristic (1): Soil

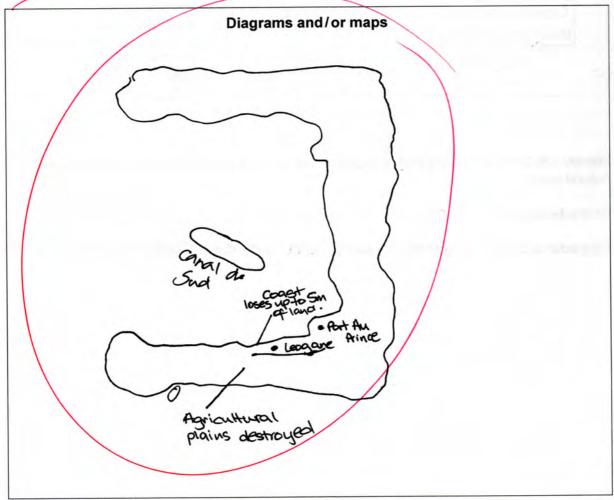
Characteristic (2): Grasslands and other Vegetation

(b) Fully explain the effects of your extreme natural event on these two characteristics in your environment case study (studies).

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In your answer, include the geographic concept of change, with integrated detailed supporting evidence from your environment case study (studies), and relevant supporting diagrams and/or maps.





The majority of Haiti's soil is a rich sediment known as alluvial soil, that is important to farming and agriculture (the backbone of Haiti's economy). It is also prone to exosion and liquefaction, so that low lying coastal areas and hillsides reasened by deforestation were deeply affected by the earthquake of January 12th 2010. The sea recessed, before the liquifaction began, and then it moved into the land as far as 5 metres. Many mudslides and landships coared in land, blocking off roads and trapping people in their homes.

The agricultural plains of the South East, where most of Halti's food products where grown, were compretely upturned by the earth's movements and the following after shockes that, following the 7.0 magnitude earthquake, reached up to 5.0 magnitude. This utterly changed the of topography of the landscape, stretcum from Port an Aince to the tip of the peninama, and rendering the agricultural industry helpless.

QUESTION THREE: The Human Response to an Extreme Natural Event

Read the geographic concept below and refer to it when answering this question.

Geographic Concept

Perspectives are the way people view and interpret environments. Perspectives and values may be influenced by culture, environment, social systems, technology, economics, and politics. They may influence how people interact with environments, and the decisions and responses that they make.

People respond to the impact or effects of an extreme natural event in many different ways.

Circle below TWO time periods, and fully explain how a group of people responded to your extreme natural event during these time periods.

Note: You should use a different group of people for each time period.

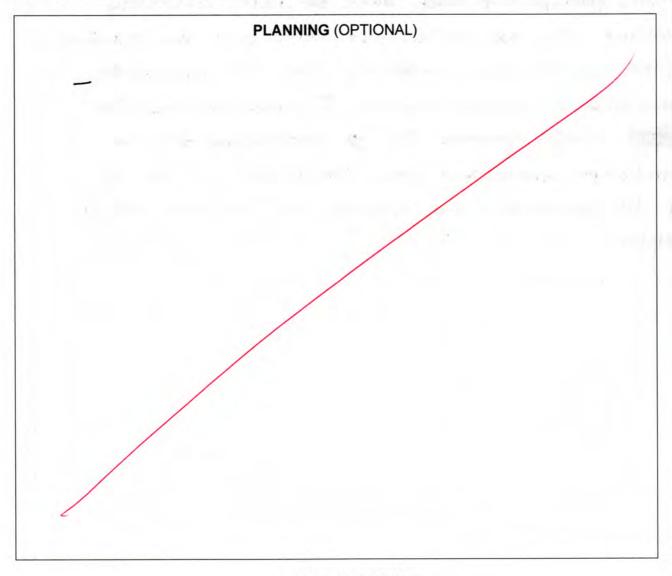
Before the extreme natural event

Immediately after the extreme natural event

Days, weeks, or months after the extreme natural event

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In your answer, include the geographic concept of perspectives, with integrated detailed supporting evidence from your environment case study (studies).



Time period (1): Before the Extreme Nothwal Event
Group of people: Haitians (Government & Civillians)

How this group of people responded to your extreme natural event during this time period:

Haiti, which was before the impoverished nation in the Western Hemisphere, did not make any effort to monitor geolog the earth's movements or the state of the numerous fauttines running through the nation or an and around the Goraive micro-plate. There was no universal education system in which earthquake safety could be taught and many did not know what to do-in-the event of an extreme notwar went. No buildings, old or new, were built to stand an earthquake of any magnitude and there were few building codes to regulate the structural safety of any residential or industrial buildings. The government had not devised an Mergency response than of any kind and relied on fereign aid prior to the earthquake for financial support of many of 4's civillians. To say thati was unprepared for a natural disaster of any magnitude would be an understatement.

Question Three continues on the next page

Time period (2): Days, Weeks of Months After / Group of people: Haitians & the International Community How this group of people responded to your extreme natural event during this time period: Immediatly following the disaster the United Notions released \$10 billion USD from their emergency response fund, and United Nations peace keepers, along. with hundreds of United States and Brazil's soldiers, were deployed on a peace keeping mission. Resour operations were initially carried out to some those trapped in the rubbole, as but as the days turned into weeks the recovery missions failed with the hope that those trapped were aline-dwindelled, and bodies were piled in the streets. Medical aid was sent from many countries, the Red Cross and Doctors Without Borders taking a lead role in treating the 300,000 injured. but chotera soon broke out in the medical camps and 5,000 atteast died in the aftermath. Overwhelmed, few attempts were made to rebuild the homes of the 1.5 million displaced by the quake, and sharty towns were Soon erected in the rubble.

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NUMBER			

Low Achievement exemplar for Geography 91007 2016			Total score	9
Q	Grade score	Annotation		
1	А3	The candidate describes the natural processes that operate to produce the extreme natural event, although little supporting evidence is included. Demonstrates very little understanding of the concept of processes.		
2	А3	The candidate does not demonstrate understanding of the natural environment as different from the cultural environment. However, the response does mention an effect on a characteristic of the natural environment and there is a case study context, although very little supporting evidence is included.		
3	The candidate does not show a distinction between two different groups or two different time periods. However, the response does describe how one group has responded within the case study environment, although little supporting evidence is included.			