

No part of the candidate evidence in this exemplar material may be presented in an external assessment for the purpose of gaining credits towards an NCEA qualification.

1

91007



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

SUPERVISOR'S USE ONLY

Level 1 Geography, 2015

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

9.30 a.m. Thursday 12 November 2015

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 2–8 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

ASSESSOR'S USE ONLY

INSTRUCTIONS

In the box below, name ONE type of **extreme natural event**, and an environment **case study (studies)**.

Type of extreme natural event:

Earthquake

Name of case study (studies):

2011 Feb earthquake

Canterbury

Refer to these when answering ALL of the questions in this booklet.

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. Processes vary in magnitude (size) and frequency.

Extreme natural events occur **above** the earth, **on** the earth's surface, or **below** the earth's surface.

- (a) Where do the extreme natural events listed below occur (above, on, or below the earth's surface)?

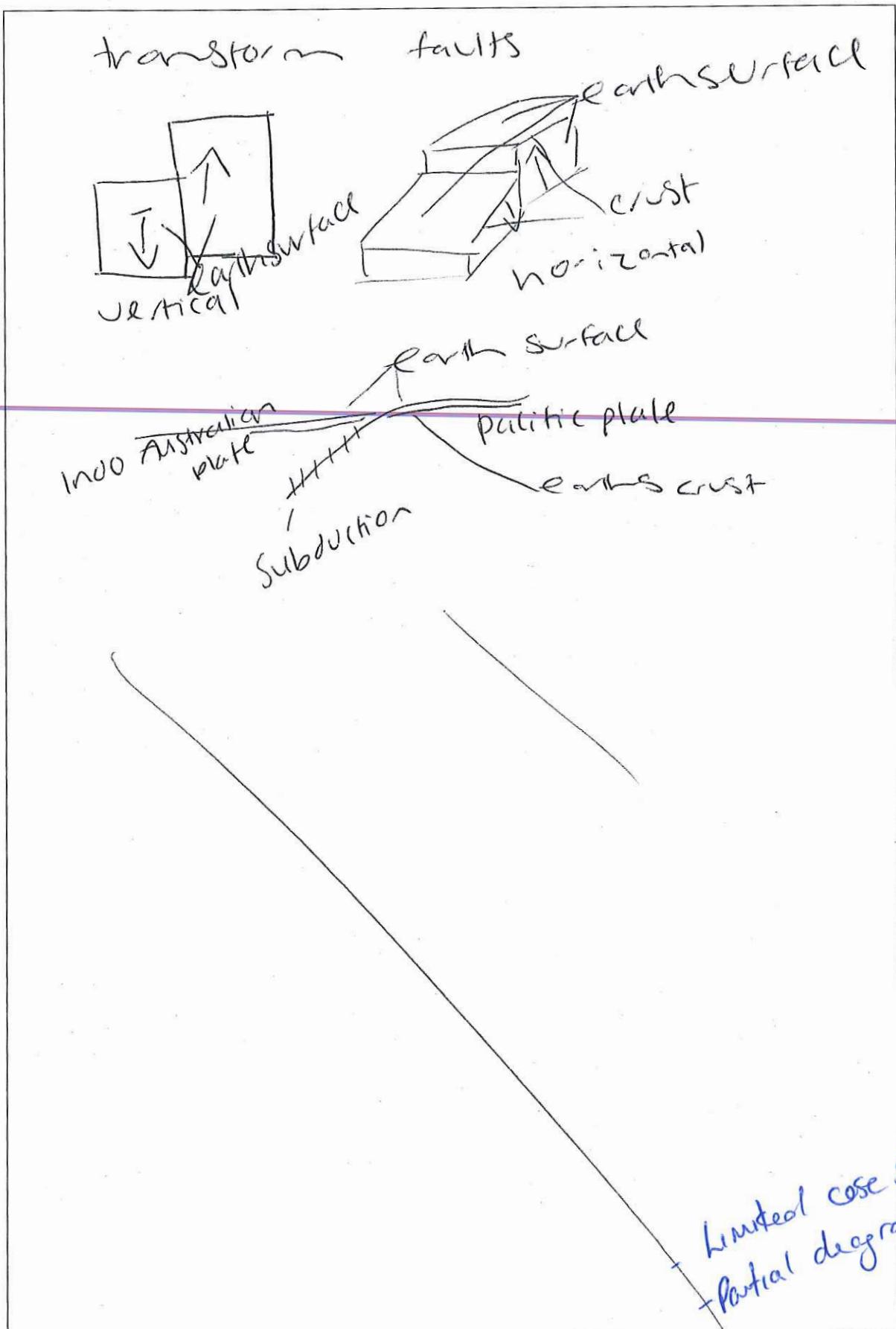
Earthquake: *below earth surface*

Flood: *on earth surface*

Tropical Cyclone: *above earth surface*

- (b) In the box below, draw an annotated diagram, or a series of annotated diagrams, to fully explain the processes that caused the extreme natural event that you named on page 2.

Add notes on your diagram(s) to explain how the processes work for your chosen environment case study (studies).



QUESTION TWO: Vulnerability of Environments to Extreme Natural Events

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

Geographic Concept

Environments may be natural and / or cultural. They have particular characteristics and features which can be the result of natural and / or cultural processes.

Some **natural and cultural characteristics (features)** make an environment more vulnerable to extreme natural events.

Natural Characteristics (Features)	Cultural Characteristics (Features)
Location	Time and history of settlement
Geology	Preparedness
Landforms	Buildings
Relief	Infrastructure
Oceans and coastlines	Economic activities
Climate	Level of technology
Rivers and lakes	Level of development

Fully explain how at least ONE natural and ONE cultural characteristic (feature) of your environment(s) make it more vulnerable to your extreme natural event from page 2.

You may use characteristics (features) from the table above, or other examples.

In your answer, include specific, relevant evidence from the extreme natural event case study (studies) you named on page 2.

Natural characteristic (feature): A natural characteristic feature was that land forms had been weakened from the earlier eq during Sept 2010. This lead the area to be more vulnerable to big impacts. The ground was weakened which resulted in the land breaking and subsidence coming through, also buildings were in weaker areas which made them more unstable and fall down like the CTU buildings.

Cultural characteristic (feature): A major cultural characteristic was the time of the earthquake in Canterbury. It was 12.51 pm, lunchtime. People were out in the open getting lunch, working, staying outside etc. This means they were at high risk of being hit by rubble from falling building or stuck in ~~high~~ tall building where they work, we have proof of this because the CBD area, not CTV building was where the majority of people were injured / killed. Whereas as the September 2010 eq in Canterbury was during the middle of the night a 3.35 am. People were in bed and there was no deaths and minimal injuries.

- Accurate description
- lacked exploring Alt
a detailed case study

QUESTION THREE: The Human Response to the Extreme Natural Event

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

Geographic Concept

Change is a normal process in cultural environments. During an extreme natural event, change can be unpredictable or erratic, and can occur at varying rates, at different times, and in different places.

Fully explain how different groups of people have responded to the effects of your chosen extreme natural event(s).

In your answer, include specific, relevant evidence from:

- the geographic concept of change
- your extreme natural event case study (studies).

many people had different reactions to the eq. It caused trauma, deaths, injuries, job losses / opportunities, and much more change. People have been affected from emotional trauma, they could have this for the rest of their lives and need counselling. People lost loved ones and have to grieve for them, some are injured and have to learn to live life with their injuries. The negative changes that came from this earthquake are huge although a positive is that the community of Canterbury all came together and helped out random strangers as well as their friends / family ~~but~~ People lost their jobs but others were there to help them, for example

A tattoo artist's parlor was destroyed in a quake and he had thousands of dollars worth of equipment stuck in there. People helped him rescue his equipment for and as thanks he offered to give them free tattoos. Although this isn't much it shows how everyone helped and appreciated each other, they did what they could and was thankful to each other. Even though the era was a traumatic time, the community's spirit left a positive impact on everyone.

Lacked supporting evidence
A3

QUESTION
NUMBER

**Extra space if required.
Write the question number(s) if applicable.**

ASSESSOR'S
USE ONLY

91007

1

91007



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

SUPERVISOR'S USE ONLY

Level 1 Geography, 2015

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

9.30 a.m. Thursday 12 November 2015

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 2–8 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.

High
Achievement

TOTAL

12

ASSESSOR'S USE ONLY

INSTRUCTIONS

In the box below, name ONE type of **extreme natural event**, and an environment **case study (studies)**.

Type of extreme natural event:

Hurricanes

Name of case study (studies):

Hurricane Katrina.

Refer to these when answering ALL of the questions in this booklet.

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. Processes vary in magnitude (size) and frequency.

Extreme natural events occur **above** the earth, **on** the earth's surface, or **below** the earth's surface.

- (a) Where do the extreme natural events listed below occur (above, on, or below the earth's surface)?

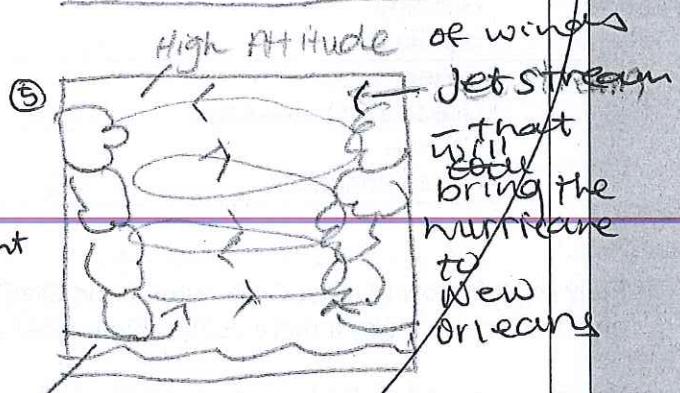
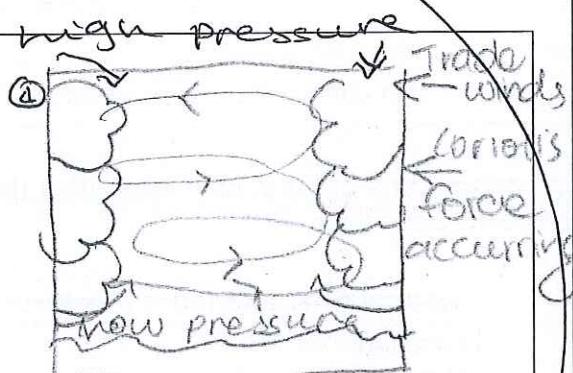
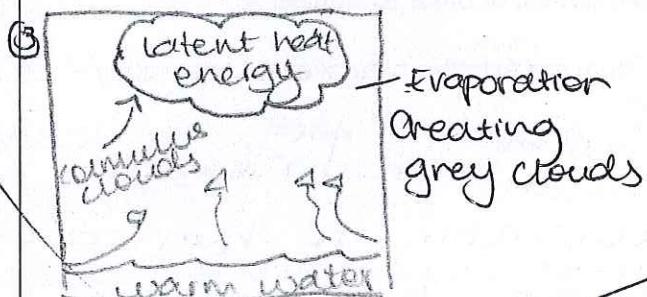
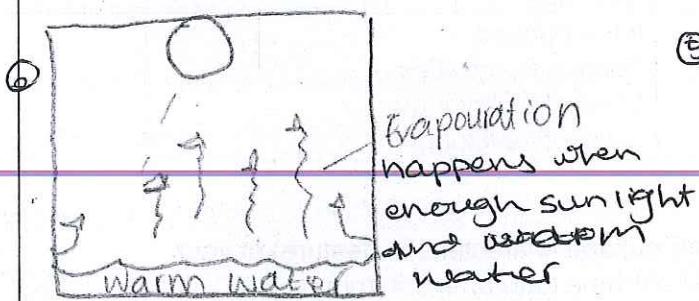
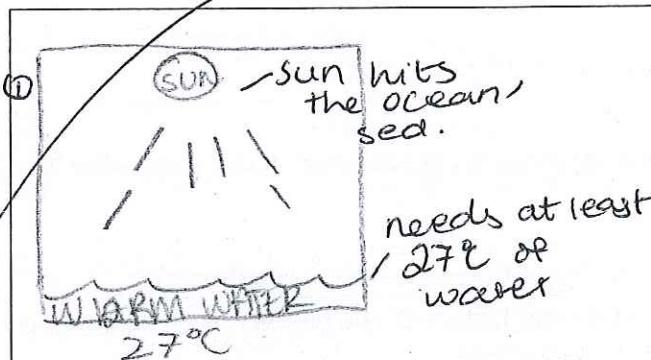
Earthquake: Below the earth's surface

Flood: on the earth's surface

Tropical Cyclone: Above the earth's surface

- (b) In the box below, draw an annotated diagram, or a series of annotated diagrams, to fully explain the processes that caused the extreme natural event that you named on page 2.

Add notes on your diagram(s) to explain how the processes work for your chosen environment case study (studies).



Very low pressure

Limited supporting evidence N2

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

Geographic Concept

Environments may be natural and / or cultural. They have particular characteristics and features which can be the result of natural and / or cultural processes.

Some **natural and cultural characteristics (features)** make an environment more vulnerable to extreme natural events.

Natural Characteristics (Features)	Cultural Characteristics (Features)
Location	Time and history of settlement
Geology	Preparedness
Landforms	Buildings
Relief	Infrastructure
Oceans and coastlines	Economic activities
Climate	Level of technology
Rivers and lakes	Level of development

Fully explain how at least ONE natural and ONE cultural characteristic (feature) of your environment(s) make it more vulnerable to your extreme natural event from page 2.

You may use characteristics (features) from the table above, or other examples.

In your answer, include specific, relevant evidence from the extreme natural event case study (studies) you named on page 2.

Natural characteristic (feature): _____

New Orleans sits on the Tropic of Cancer meaning that it's a warm area. And that New Orleans is just 50 cm above sea level and 49% of the city is below sea level. So when a 9m storm surge happens there would be a lot of flooding in areas. (A annotated diagram is shown in the last page)

Cultural characteristic (feature): Economic Activities. - e.g Tourism. The economic was vulnerable to hurricanes is that lost of jobs happened after Hurricane Katrina hit. About 95,000 jobs were lost. People didn't get paid very well. In the tourism industry 25,000 jobs were lost. because of this, is that; these facilities were damaged. Tourism spots were vulnerable to this because some areas can be flooded like the New Orleans Zoo (Abundun Zoo) which ~~lost~~ & animals died. The French Quarter wasn't that vulnerable or less affected because it's in higher ground so there was less flooding in those areas of the city.

Clear explaining
Just enough detailed
supporting evidence

m6

QUESTION THREE: The Human Response to the Extreme Natural Event

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

Geographic Concept

Change is a normal process in cultural environments. During an extreme natural event, change can be unpredictable or erratic, and can occur at varying rates, at different times, and in different places.

Fully explain how different groups of people have responded to the effects of your chosen extreme natural event(s).

In your answer, include specific, relevant evidence from:

- the geographic concept of change
- your extreme natural event case study (studies).

A group ~~area~~ of people that responded responded is group called the Cajun Navy. The Cajun Navy were people who called themselves that by family, friends and Neighbours who helped people after Katrina hit. They were a immediate response and they were people who had boats. The Cajun Navy rescued people who were elderly, disabled, medical help or problems, people who were stucked in their homes and people who simply can't swim. They asked people who had boats and helped them out and meet them at the acadian mall and they were expecting 25-30 boats to arrive but 2days later at 2am the mall's V

car park was full, there were about 300 - 400 boats that came.

~~people~~ Some people travelled all the way to New Orleans to help them out. Around 10,000 people or more were saved by the Cajun Navy.

of one

Description
group

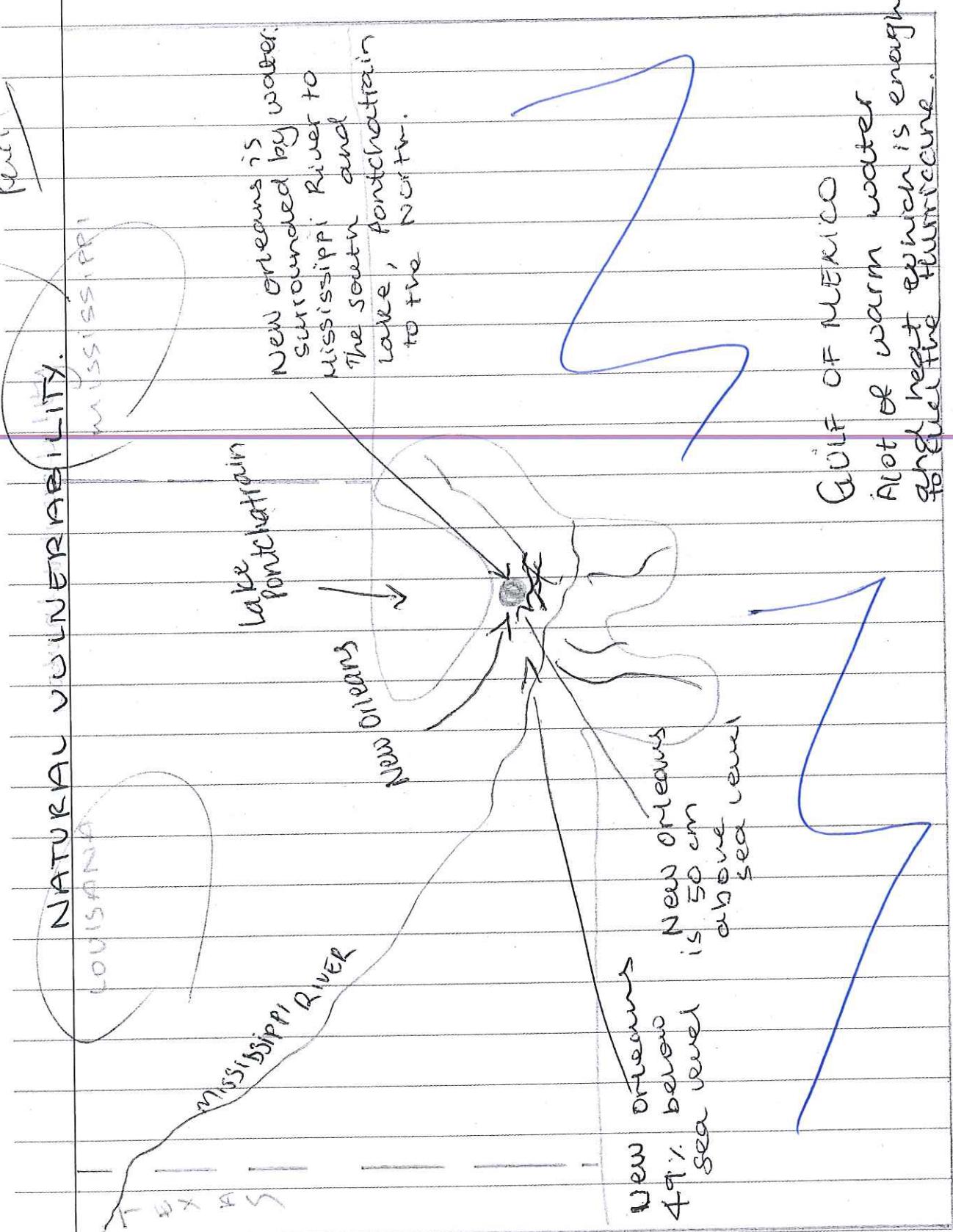
A4

Extra space if required.
Write the question number(s) if applicable.

QUESTION
NUMBER

Pencil

NATURAL VULNERABILITY



: levees. - these levees stops the natural growth because all the sediment is gone and not going into the delta.