

91007



NEW ZEALAND QUALIFICATIONS AUTHORITY  
MANA TOHU MĀTAURANGA O AOTEAROA

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SUPERVISOR'S USE ONLY

## Level 1 Geography, 2011

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

9.30 am Wednesday 23 November 2011

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 parts of ALL 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.**

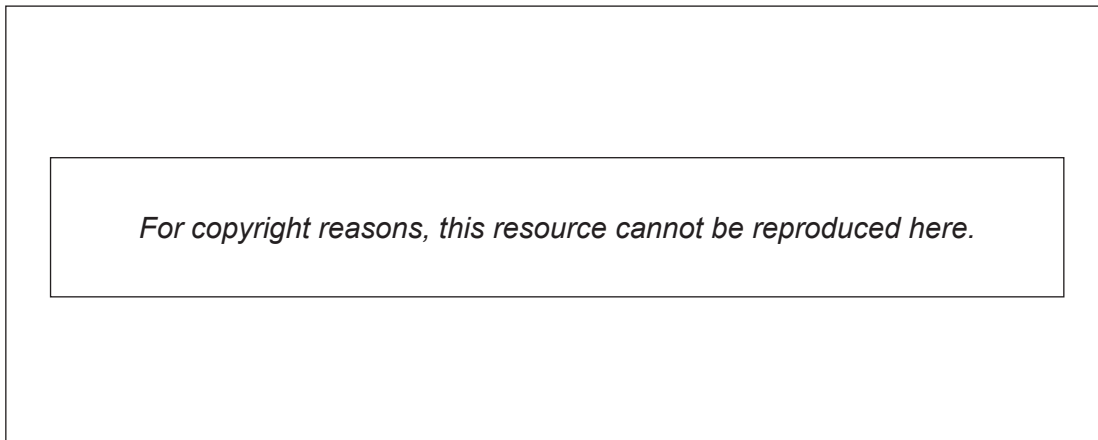
**TOTAL**

ASSESSOR'S USE ONLY

You are advised to spend 60 minutes answering the questions in this booklet.

### QUESTION ONE: UNDERSTANDING EXTREME NATURAL EVENTS

Refer to the **cartoon** below when answering (a).



Source (adapted): [www.cartoonistgroup.com](http://www.cartoonistgroup.com)

- (a) Fully explain, with reasons, how the cartoon and the comments in it show that the environment where this house is located is affected by extreme natural events.

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- (b) The four statements below show possible extreme natural event responses:
- (1) Heavy machinery brought in to reinforce a collapsed river bank.
  - (2) People seeking shelter, or moving to higher ground.
  - (3) Emergency evacuation plans being available online or via radio/television.
  - (4) Flood management schemes introduced to prevent future flooding.

The first box has been completed for you. Write the **number** of the remaining statements into the appropriate boxes below (each number and each box should be used once).

Before:	During the event:	Emergency response:	Long-term response:
3			



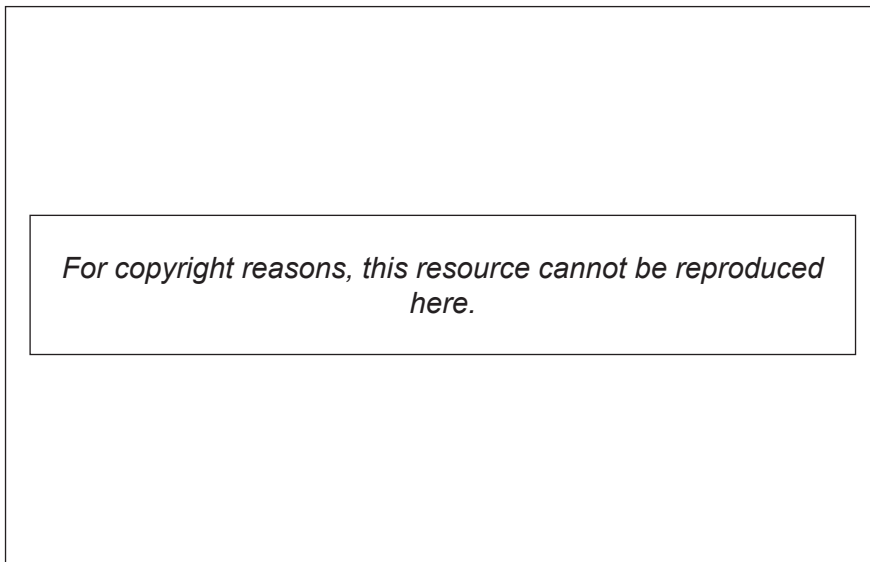
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Refer to **Graph One** below when answering (d).



Source (adapted): [www.emdat.be/natural-disasters-trends](http://www.emdat.be/natural-disasters-trends)

- (d) (i) What was the annual average cost of damage in \$US billions, caused by extreme natural events in Europe from 1990 to 2009?

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Refer to BOTH **Map One** on page 3 and **Graph One** above when answering (ii).

- (ii) Fully explain, with reasons, the relationship between the number of extreme natural events in Africa, and the cost of damages for Africa.

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In the box below, name ONE type of **extreme natural event**, and a case study (or studies) that you will use to answer Questions Two and Three.

Type of extreme natural event:

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Name of case study (studies):

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## QUESTION TWO: NATURAL PROCESSES

Read the following **Geographic Concepts**. Include **specific references** to them, as well as to the **extreme natural event** and to the **environment** of the case study (studies) you have named above, to support your answers to this question.

### Geographic Concepts

**Processes** are sequences of related actions that shape and change environments.

**Environments** have particular characteristics and features, which can be the result of processes. Some environments can be changed because of an extreme natural event.

- (a) Draw an annotated (labelled) diagram in the box below to clearly show the **major natural characteristics (features)** of the environment in your named case study (studies) that make it vulnerable to (likely to be affected by) your named extreme natural event.







When an extreme natural event occurs, individuals, groups, or organisations respond in different ways.

The **response pyramid** below shows some individuals, groups, or organisations that are involved after an extreme natural event.



- (b) Fully explain ONE **immediate response** AND ONE **long-term response** to the effects of your named extreme natural event, by selected individuals, groups, or organisations.

Refer to the individuals, groups, or organisations listed in the pyramid above (or any others), to support your answer.

- (i) Individual, group, or organisation: \_\_\_\_\_

Immediate response: \_\_\_\_\_

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