

90814



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

2

SUPERVISOR'S USE ONLY

Level 2 Education for Sustainability, 2011

90814 Describe aspects of sustainability in relation to a sustainable future

9.30 am Friday 18 November 2011
Credits: Four

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

Answer TWO of the four 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 2–16 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.

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ASSESSOR'S USE ONLY			Achievement Criteria		
Achievement		Achievement with Merit		Achievement with Excellence	
Describe aspects of sustainability in relation to a sustainable future.	<input type="checkbox"/>	Explain aspects of sustainability in relation to a sustainable future.	<input type="checkbox"/>	Discuss aspects of sustainability in relation to a sustainable future.	<input type="checkbox"/>
Overall level of performance					<input type="checkbox"/>

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

INSTRUCTIONS

Before you select TWO questions to answer, **carefully read** all FOUR questions. Use these planning pages to make brief notes about aspects and examples you want to cover, or points you wish to make in your answers. Use a different planning page for each question.

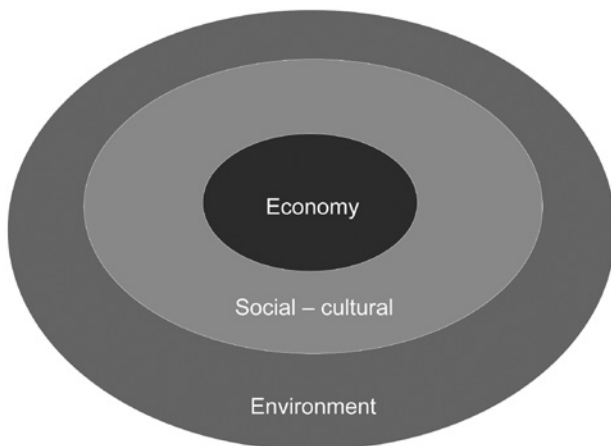
PLANNING PAGE

QUESTION _____

Four aspects of sustainability are:

- Environmental/ecological
- Social
- Cultural
- Economic.

They are often represented like this:



Useful **concepts**. Highlight the ones you will use:

- biodiversity
- personal and social responsibility
- interdependence
- future generations
- values and beliefs
- kaitiakitanga (guardianship and conservation)
- equity and social justice
- conflicts and trade-offs
- market demand
- new ways of thinking and acting
- resource management
- perception
- ecological footprint.

Aspects of sustainability and concepts in relation to a sustainable future

Examples/Case studies/Supporting evidence

PLANNING PAGE

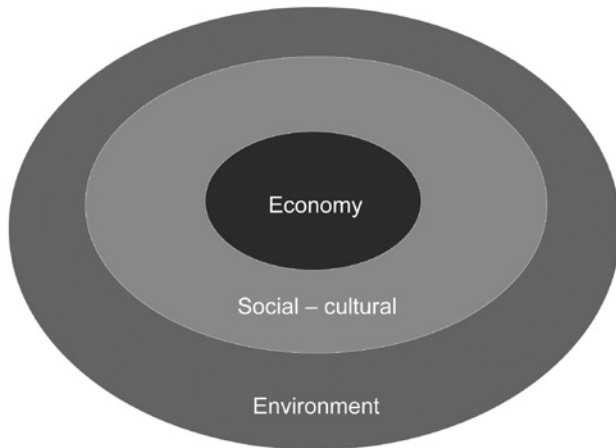
ASSESSOR'S
USE ONLY

QUESTION _____

Four aspects of sustainability are:

- Environmental/ecological
- Social
- Cultural
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They are often represented like this:



Strong sustainability

Useful **concepts**. Highlight the ones you will use:

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Aspects of sustainability and concepts in relation to a sustainable future

Examples/Case studies/Supporting evidence

EITHER: QUESTION ONE: CONSUMERISM

Cartoons are effective political tools as they convey the ideas and viewpoints of the cartoonist succinctly. In this cartoon Polyp uses a mixture of visual and written elements to make his point.

Resource A

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Source: *Polyp* cartoons, www.polyp.org.uk/cartoons/wealth/polyp_cartoon_tourist_yuppie_hypocrite_gap_year_wealth_poverty.jpg

Carefully study the cartoon. The cartoonist is making a strong statement about consumerism and global inequality.

Discuss the cartoonist's message and how it relates to a sustainable future. In your discussion, you must:

- apply aspects of sustainability
- refer to case studies or examples you have studied.

Resource G

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Global average figures for the virtual water¹ content of foods and beverages.

¹Virtual water is a measure of the water use required to produce a product or service.

Source: Adapted from www.royalsociety.org.nz/media/publications-policy-2009-emerging-issues-virtual-water.pdf

- (a) When considering the FOUR aspects of sustainability and the resources on pages 6 and 7, identify TWO issues the world and/or New Zealand faces with respect to food production/consumption as we seek to develop a more sustainable future.

(1) _____

(2) _____

OR: QUESTION THREE: BIODIVERSITY

Carefully study the stimulus material. The material is about biodiversity from a variety of sources.

<p style="text-align: center;">Resource H</p> <p>Biodiversity is New Zealand's ...</p> <p>Source: Masterton District Council www.mstn.govt.nz/projects/biodiversity2/index.php</p>	<p style="text-align: center;">Resource I</p> <p>Biodiversity is the natural biological capital ...</p> <p>... and to discover new products and technologies.</p> <p>Source: http://knowledge.cta.int/en/Dossiers/S-T-Issues-in-Perspective/Biodiversity/Articles/Biodiversity-Science-and-Governance From article on Biodiversity, Science and Governance by Zacharia Magombo</p>
<p style="text-align: center;">Resource J</p> <p>Source: http://www.biosecurity.govt.nz/</p>	<p style="text-align: center;">Resource L</p> <p>Source: http://biodiversity.tamu.edu/about.html</p>
<p style="text-align: center;">Resource K</p> <p>Source: www.biodiversity.govt.nz/index.html</p>	

Discuss how individuals, groups, organisations and/or governments have responded to biodiversity challenges. In your discussion you must:

- apply aspects of sustainability in relation to a sustainable future
- refer to the stimulus material as well as relevant case studies or examples you have studied.

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OR: QUESTION FOUR: CLIMATE CHANGE

Read the resource below carefully. It is clear that this writer sees climate change as a global problem that requires both a global action plan and a local response.

Resource M
Living with climate change

Climate change is already upon us, and it will get worse ...

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... Adaptation and mitigation² are not alternatives. Both are needed.

¹ Transmission belt – area in the world where the malaria-carrying mosquito is common.

² Mitigation – reduction in effect.

Source: Page 107, J.D. Sachs, *Common Wealth: Economics for a crowded planet* (2008)

Discuss the type of action plans government organisations and /or communities have initiated in response to climate change. In your discussion you must:

- apply aspects of sustainability in relation to a sustainable future to these responses
- refer to case studies or examples of specific community or government actions. These may be at the local, national or global level.

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

**QUESTION
NUMBER**

90814
