

93105A



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SUPERVISOR'S USE ONLY



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

Scholarship 2014 Agricultural and Horticultural Science

9.30 am Thursday 20 November 2014
Time allowed: Three hours
Total marks: 24

ANSWER BOOKLET

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

Answer ALL questions from Question Booklet 93105Q.

Write your answers in this booklet.

Start your planning and answers to Questions One, Two, and Three from pages 2, 8, and 14 respectively.

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 2–24 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.

Question	Mark
ONE	
TWO	
THREE	
TOTAL	/24

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QUESTION ONE – NUTRIENT MANAGEMENT (8 marks)ASSESSOR'S
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In a comment to Newstalk ZB on 21 November 2013, Jamie Falloon, President of the Federated Farmers Wairarapa, said, “There is a responsibility to resolve the water quality issues and we don’t shy away from that, but the key bit is to make sure the decisions are sensible, and that they don’t have unforeseen economic consequences for regional economies.”

Nutrients are an important input into agricultural and horticultural systems. However, there is increasing concern over contamination of waterways (rivers, lakes, and groundwater) from fertiliser and animal effluent. In response, regional councils are proposing nutrient loss limits on agricultural land.

Discuss the likely impacts of these proposals on a specific primary production system, and the potential economic and social effects on the various stakeholders.

Plan your answer here. Begin your answer on page 3.

QUESTION TWO – ADDING VALUE (8 marks)ASSESSOR'S
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Adding value to a product is a key component of any primary production system.

With reference to TWO primary production systems:

- discuss how value is added to the primary products in their production systems
- evaluate the opportunities and challenges that adding value presents to the selected primary production systems.

Plan your answer here. Begin your answer on page 9.

QUESTION THREE – CONTEMPORARY ISSUES (8 marks)ASSESSOR'S
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Choose TWO of the following contemporary issues:

- animal welfare
- biosecurity
- traceability
- food safety
- country of origin labelling.

For EACH of your chosen contemporary issues, and with reference to ONE primary production system:

- critically analyse the impact that the issue has had on the selected primary production system
- discuss likely future developments in regard to the issue, and the effects that these developments will have on the primary production system.

Plan your answer here. Begin your answer on page 15.

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

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