

S

93105Q



931052



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

Scholarship 2013 Agricultural and Horticultural Science

9.30 am Tuesday 19 November 2013

Time allowed: Three hours

Total marks: 24

QUESTION BOOKLET

There are **THREE** questions in this booklet. Answer **ALL** questions.

Write your answers in Answer Booklet 93105A.

Check that this booklet has pages 2–3 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

You have three hours to complete this examination.

QUESTION ONE (8 marks)

*For copyright reasons, this resource cannot be reproduced here.
See source (adapted): www.stats.govt.nz/infoshare*

The graph above shows the trends in the value of New Zealand's agricultural and horticultural exports to selected markets since 1990.

With reference to TWO export-orientated primary production systems:

- discuss how changes in market access have contributed to trends shown in the choice of export destination by the exporters of New Zealand's agricultural and horticultural products
- identify and discuss the responses that have occurred within the primary production systems as a result of the identified market access issues.

Plan your answer to this question on page 2 of the Answer Booklet and begin your answer on page 3.

QUESTION TWO (8 marks)

As agricultural and horticultural production systems intensify, the availability of high-quality water, and the management of nutrients, have become issues for a wide range of stakeholders.

Discuss these conflicts and perspectives in terms of the sustainability (economic, environmental, political, and social) of primary production systems in New Zealand.

Plan your answer to this question on page 8 of the Answer Booklet and begin your answer on page 9.

QUESTION THREE (8 marks)

Choose TWO of the following contemporary issues:

- animal welfare
- biosecurity
- changes in land use
- traceability
- value added.

Critically analyse the **opportunities** and **threats** that the chosen issues present to the production of ONE nationally significant primary product, and how producers have responded to these opportunities and threats.

Plan your answer to this question on page 14 of the Answer Booklet and begin your answer on page 15.

