

93105Q





Scholarship 2020 Agricultural and Horticultural Science

2.00 p.m. Monday 16 November 2020 Time allowed: Three hours Total score: 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 2–6 in the correct order and that none of these pages is blank.

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

QUESTION ONE: The future sustainability of primary production

With reference to ONE primary production system, analyse its future sustainability in terms of economic, social and environmental factors, or considerations.



QUESTION TWO: Global trade disruptions/changes

Disruptions to global trade are often the result of political agreements or disagreements between countries. These have implications for New Zealand's trade and, ultimately, the production and profitability of our primary production systems.

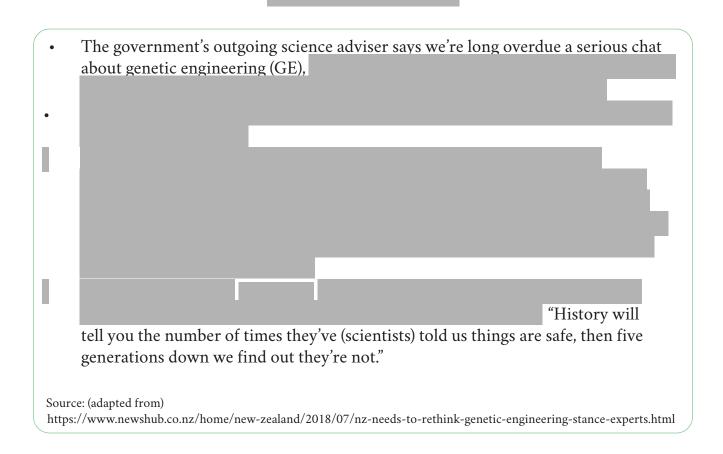
With reference to TWO New Zealand primary production systems, discuss the threats and opportunities that these global 'events' present.				

QUESTION THREE: The position of genetic modification in New Zealand's primary production sector

- (a) Explain what genetic modification (GM) is.
- (b) Discuss the opportunities GM may offer or provide to New Zealand's primary production sector, and the challenges it presents.

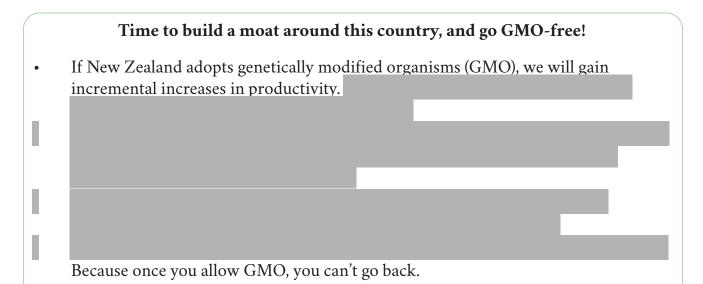
Include specific primary product examples to support your discussion.

Assorted views on New Zealand's current stance on GM and GE



Source: (adapted from)

https://thespinoff.co.nz/science/02-10-2018/nzs-pig-headed-rejection-of-gm-is-putting-our-agricultural-future at-risk/



Source: (adapted from)

https://www.stuff.co.nz/business/farming/109225845/time-to-build-a-moat-around-this-country-and-go-gmofree and the state of the state

Acknowledgements

Material from the following sources has been adapted for use in this examination:

Page 2

(image) https://www.guide-natura.com/sv-SE/om-oss/h%C3%A5llbarhetsarbete-41587255

Page 3

(text) https://2.bp.blogspot.com/-g56E3YJI4ME/Wz9pG8YxI6I/AAAAAAADQyA/E8cDHbI

geYrfaD4m7GFNFdVgaiHbmVDQCLcBGAs/s1600/Screen%2BShot%2B2018-07-06%2Bat%2B6.04.33%2

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(image) https://www.newshub.co.nz/home/money/2020/02/how-brexit-will-impact-new-zealand.html

(image) https://www.newshub.co.nz/home/world/2019/10/boris-johnson-s-brexit-deal-passes-second-reading.html

(image) https://commons.wikimedia.org/wiki/File:CNN.svg

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Page 4

(image) https://www.gefree.org.nz/