



B O A R D O F S T U D I E S
NEW SOUTH WALES

2005

**HIGHER SCHOOL CERTIFICATE
EXAMINATION**

Agriculture

Paper 2

General Instructions

- Paper 2 should be attempted only by students who have studied Electives
- Reading time – 5 minutes
- Working time – 1 hour
- Write using black or blue pen
- Board-approved calculators may be used

Total marks – 30

- Attempt TWO questions from Questions 1–6
- Allow about 30 minutes for each question

Total marks – 30

Attempt TWO questions from Questions 1–6

Allow about 30 minutes for each question

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

	Marks
Question 1 — Agribusiness (15 marks)	
(a) Describe the research method that was used in a study relating to the impact of a rural business on an agricultural industry.	3
(b) Explain TWO methods that could be used to develop new international markets for a product you have studied.	4
(c) Discuss different sources of finance farmers can access for their farm business.	8
Question 2 — Animal Management (15 marks)	
(a) Describe the research method that was used in a study relating to the use of a technology in animal production.	3
(b) Explain TWO management practices farmers may use to increase the reproductive efficiency of a named animal.	4
(c) Discuss issues associated with a range of disease control methods used in animal production.	8
Question 3 — Horticulture (15 marks)	
(a) Describe the research method that was used in a study relating to the adoption of a new technology in a horticultural industry.	3
(b) Explain TWO innovative plant propagation techniques that are used to increase production in horticulture.	4
(c) Discuss technological changes that are being introduced to a horticultural industry.	8

Question 4 — Innovation and Diversification (15 marks)

- (a) Describe the research method that was used in a study relating to implementation of EITHER an alternative agricultural production system OR a technology. **3**
- (b) Explain TWO factors that can lead to the development of alternative agricultural production systems or technological innovations. **4**
- (c) Discuss issues involved in introducing alternative agricultural production systems or technologies into farm businesses. **8**

Question 5 — Plant Management (15 marks)

- (a) Describe the research method that was used in a study relating to the potential to improve production in a plant production system. **3**
- (b) Explain TWO innovative technologies that have improved the management of environmental factors in a plant production system. **4**
- (c) Discuss issues involved with the introduction of genetically engineered plant varieties. **8**

Question 6 — Sustainable Land and Resource Management (15 marks)

- (a) Describe the research method that was used in a study relating to the more efficient use of water in an agricultural production system. **3**
- (b) Explain TWO innovative technologies used in land management that have increased sustainability in agriculture. **4**
- (c) Discuss issues associated with a total catchment management approach to sustainable water management. **8**

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