



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

**2004**

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.

---

	<b>Marks</b>
<b>Question 1 — Agribusiness (15 marks)</b>	
(a) Describe THREE different options that farmers have when selling a particular agricultural product.	<b>3</b>
(b) Explain TWO ways a farmer may use farm advisory services to assist farm decision making.	<b>4</b>
(c) For a specific agricultural product, evaluate the impacts of large organisations or companies on the production AND marketing of this product.	<b>8</b>
 <b>Question 2 — Animal Management (15 marks)</b>	
(a) Describe THREE strategies that a farmer may use to keep livestock in good health.	<b>3</b>
(b) Explain how objective measurement can improve a specific trait in an animal industry.	<b>4</b>
(c) Evaluate THREE management techniques that farmers may use to manipulate reproduction in farm animals.	<b>8</b>
 <b>Question 3 — Horticulture (15 marks)</b>	
(a) Describe THREE impacts that quarantine practices may have on horticultural industries.	<b>3</b>
(b) Explain how the level of inputs relates to the outputs for a horticultural system you have studied.	<b>4</b>
(c) Evaluate the role of the manager in the manipulation of a horticultural system in terms of supplying new or developing markets AND maintaining environmental sustainability.	<b>8</b>

**Question 4 — Innovation and Diversification (15 marks)**

- (a) Describe THREE new agricultural enterprises or technologies. **3**
- (b) Explain the importance of marketing in determining the success of an innovation in the marketplace. **4**
- (c) For an alternative agricultural production system OR technological innovation you have studied, evaluate the economic implications AND environmental impact. **8**

**Question 5 — Plant Management (15 marks)**

- (a) Describe THREE ways plant hormones are used to manipulate plant production. **3**
- (b) Explain the process of photosynthesis in plant growth. **4**
- (c) For a cropping system you have studied, evaluate how management may affect nutrient cycling AND plant reproduction. **8**

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

- (a) Describe THREE innovative strategies that have been implemented to address environmental sustainability in agriculture. **3**
- (b) Explain the farming practices that have led to ONE form of soil degradation. **4**
- (c) In terms of agricultural production, evaluate the effectiveness of government regulations on the supply AND quality of water. **8**

**End of paper**

BLANK PAGE