

BOARD OF STUDIES

# 2007

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

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horticultural industry.

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

Que	stion 1 — Agribusiness (15 marks)	Marks
(a)	Outline the choices available for a farm business to obtain finance for its operations.	3
(b)	Explain how information or data was collected in a study that determined the impact of a large rural business on the agricultural industries in which it is involved.	4
(c)	Discuss various marketing options available for a particular agricultural product.	8
Que	stion 2 — Animal Management (15 marks)	
(a)	Outline ONE technique used by farmers to manage reproduction in farm animals.	3
(b)	Explain how the results were analysed and presented in a study of a current technique/technology which is advancing productivity in animal production systems.	4
(c)	Discuss implications associated with the successful introduction of new technologies into animal production systems.	8
Que	stion 3 — Horticulture (15 marks)	
(a)	Outline a management technique used to increase the level of output in a horticultural production system.	3
(b)	Explain factors a researcher may have considered when undertaking a study of one technological innovation aimed at improving productivity in a particular	4

(c) Discuss the use of plant propagation techniques in terms of plant physiology. **8** 

#### Marks

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

- Outline the effect ONE environmental factor may have on an alternative 3 (a) agricultural production system or technology.
- 4 (b) Explain the research methodology that was used in a study of the development and implementation of one alternative agricultural production system or technology.
- Discuss ways to overcome possible social barriers to the development of an 8 (c) alternative agricultural system or enterprise.

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

agriculture.

- 3 Outline the relationship between cellular anatomy and the function of ONE (a) major plant organ.
- Explain the research methodology that was used in a study of the role of plant 4 (b) breeding, or related research, in advancing productivity of plant production systems.
- 8 (c) Discuss the use of plant hormones in manipulating plant production systems.

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

(a)	Outline the purpose of the Australian Land Capabilities system.	3
(b)	Explain how a particular finding from a study of innovative technologies or practices that are assisting with the conservation and efficient use of water, has influenced agricultural production systems.	4
(c)	Discuss the use of whole-farm planning in achieving sustainability in	8

# End of paper

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