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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Attempt TWO questions from Questions 1–6
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Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

Question 1 — Agribusiness (15 marks)

(a) Outline the choices available for a farm business to obtain finance for its operations.

(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.

(c) Discuss various marketing options available for a particular agricultural product.

 marks

Question 2 — Animal Management (15 marks)

(a) Outline ONE technique used by farmers to manage reproduction in farm animals.

(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.

(c) Discuss implications associated with the successful introduction of new technologies into animal production systems.

 marks

Question 3 — Horticulture (15 marks)

(a) Outline a management technique used to increase the level of output in a horticultural production system.

(b) Explain factors a researcher may have considered when undertaking a study of one technological innovation aimed at improving productivity in a particular horticultural industry.

(c) Discuss the use of plant propagation techniques in terms of plant physiology.
Question 4 — Innovation and Diversification (15 marks)

(a) Outline the effect ONE environmental factor may have on an alternative agricultural production system or technology. 
3

(b) Explain the research methodology that was used in a study of the development and implementation of one alternative agricultural production system or technology. 
4

(c) Discuss ways to overcome possible social barriers to the development of an alternative agricultural system or enterprise. 
8

Question 5 — Plant Management (15 marks)

(a) Outline the relationship between cellular anatomy and the function of ONE major plant organ. 
3

(b) Explain the research methodology that was used in a study of the role of plant breeding, or related research, in advancing productivity of plant production systems. 
4

(c) Discuss the use of plant hormones in manipulating plant production systems. 
8

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 agriculture. 
8

End of paper