



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

2010 HSC Agriculture Paper 2 Marking Guidelines

Question 1 (a)

Criteria	Marks
• Provides characteristics and features of a technique that can be used to analyse the financial situation of a farm	3
• Outlines a technique that can be used to analyse the financial situation of a farm	2
• Identifies a technique that can be used to analyse the financial situation of a farm	1

Question 1 (b)

Criteria	Marks
• Makes a judgement about a marketing option or selling system that is available for a particular agricultural product	4
• Describes in detail a marketing option or selling system that is available for a particular agricultural product	3
• Outlines a marketing option or selling system that is available for a particular agricultural product studied	2
• Identifies a marketing option or selling system that is available for a particular agricultural product	1

Question 1 (c)

Criteria	Marks
<ul style="list-style-type: none"> Provides a number of points for and/or against impacts that large agricultural corporations or companies may have on biological and physical components of the industry 	7–8
<ul style="list-style-type: none"> Provides some points for and/or against impacts that large agricultural corporations or companies may have on biological and/or physical components of the industry 	5–6
<ul style="list-style-type: none"> Outlines impacts that large agricultural corporations or companies may have on biological and physical components of the industry OR <ul style="list-style-type: none"> Explains in detail an impact that large agricultural corporations or companies may have on biological or physical components of the industry 	3–4
<ul style="list-style-type: none"> Identifies an impact that large agricultural corporations or companies may have on biological and physical components of the industry OR <ul style="list-style-type: none"> Outlines an impact that large agricultural corporations or companies may have on a biological or physical component of the industry 	1–2

Question 2 (a)

Criteria	Marks
<ul style="list-style-type: none"> Sketches in general terms the role of objective measurement in a named animal breeding program 	3
<ul style="list-style-type: none"> Sketches in general terms the role of objective measurement OR <ul style="list-style-type: none"> Sketches in general terms an objective measurement 	2
<ul style="list-style-type: none"> Identifies a role of objective measurement OR <ul style="list-style-type: none"> Identifies an objective measurement OR <ul style="list-style-type: none"> Names an animal breeding program 	1

Question 2 (b)

Criteria	Marks
<ul style="list-style-type: none"> Shows the relationship between the pest/disease and the development of resistance to a chemical or chemicals used in an animal production system 	4
<ul style="list-style-type: none"> Provides characteristics and features of the development of resistance to a chemical or chemicals used in an animal production system 	3
<ul style="list-style-type: none"> Identifies a pest/disease resistant to an identified chemical or chemicals used in animal production systems OR <ul style="list-style-type: none"> Outlines the development of resistance in animal production systems 	2
<ul style="list-style-type: none"> Identifies a pest/disease that may have developed chemical resistance OR <ul style="list-style-type: none"> Identifies a chemical that has become ineffective due to resistance levels in target organisms 	1

Question 2 (c)

Criteria	Marks
<ul style="list-style-type: none"> Shows the relationship between the hormones involved in animal reproductive cycles and how farmers manipulate them 	7-8
<ul style="list-style-type: none"> Shows the relationship between the hormones involved in reproductive cycles OR <ul style="list-style-type: none"> Identifies the hormones involved in reproductive cycles and describes how farmers manipulate them 	5-6
<ul style="list-style-type: none"> Outlines the reproductive cycles found in farm animals OR <ul style="list-style-type: none"> Outlines the role of hormones found in animal reproductive cycles OR <ul style="list-style-type: none"> Identifies a hormone and shows how farmers use this hormone to manipulate reproductive cycles 	3-4
<ul style="list-style-type: none"> Identifies an animal hormone(s) OR <ul style="list-style-type: none"> Identifies ways farmers can manipulate reproductive cycles in farm animals 	1-2

Question 3 (a)

Criteria	Marks
<ul style="list-style-type: none"> Provides characteristics and features of a production cycle for a named horticultural system 	3
<ul style="list-style-type: none"> Outlines some characteristics and features of a production cycle for a horticultural system 	2
<ul style="list-style-type: none"> Identifies a characteristic or feature of a production cycle for a horticultural system OR <ul style="list-style-type: none"> Names a horticultural system 	1

Question 3 (b)

Criteria	Marks
<ul style="list-style-type: none"> Provides the relationship between changing international markets and the influences on post-harvest handling in horticulture 	4
<ul style="list-style-type: none"> Outlines the influences that changing international markets may have on post-harvest handling in horticulture 	3
<ul style="list-style-type: none"> Outlines some effects that changing international markets may have on post-harvest handling in horticulture 	2
<ul style="list-style-type: none"> Identifies an effect that changing international markets may have on post-harvest handling in horticulture 	1

Question 3 (c)

Criteria	Marks
<ul style="list-style-type: none"> Shows the relationships between managing components of the horticultural system and its economic viability and environmental sustainability 	7–8
<ul style="list-style-type: none"> Provides a relationship between components of a horticultural system and the economic viability and environmental sustainability of the system 	5–6
<ul style="list-style-type: none"> Outlines the management of components of a horticultural system OR <ul style="list-style-type: none"> Outlines factors that affect the economic viability or environmental sustainability of a horticultural system 	3–4
<ul style="list-style-type: none"> Outlines a role that the manager may play in manipulating parts of a horticultural system OR <ul style="list-style-type: none"> Identifies that the farm manager can affect economic viability and environmental sustainability of a horticultural system OR <ul style="list-style-type: none"> Identifies components of a system that can be managed 	1–2

Question 4 (a)

Criteria	Marks
<ul style="list-style-type: none"> • Outlines how a new production system or technology has impacted on farm management 	3
<ul style="list-style-type: none"> • Outlines a new production system or technology 	2
<ul style="list-style-type: none"> • Identifies a new production system or technology 	1

Question 4 (b)

Criteria	Marks
<ul style="list-style-type: none"> • Provides an account of why there is a need for research prior to implementation of an alternative enterprise 	3–4
<ul style="list-style-type: none"> • Outlines a need for research prior to implementation of an alternative enterprise 	2
<ul style="list-style-type: none"> • Identifies a need for research prior to implementation of an alternative enterprise 	1

Question 4 (c)

Criteria	Marks
<ul style="list-style-type: none"> • Provides judgment(s) on the use of techniques that may be used to market an innovation in Australian Agriculture 	7–8
<ul style="list-style-type: none"> • Describes a technique that may be used to market an innovation in Australian agriculture, providing a judgement for the use of this technique • Describes an additional technique 	5–6
<ul style="list-style-type: none"> • Provides a judgement on the use of an outlined technique that may be used to market an innovation in Australian agriculture OR <ul style="list-style-type: none"> • Outlines techniques that may be used to market an innovation in Australian agriculture 	3–4
<ul style="list-style-type: none"> • Outlines a technique that may be used to market an innovation in Australian agriculture OR <ul style="list-style-type: none"> • Identifies technique(s) that may be used to market an innovation in Australian agriculture 	1–2

Question 5 (a)

Criteria	Marks
• Sketches in general terms the anatomy AND function of a type of cell found in plant leaves	3
• Sketches in general terms the anatomy OR function of a type of cell found in plant leaves	2
• Identifies a type of cell found in plant leaves	1

Question 5 (b)

Criteria	Marks
• Provides the relationship between plant hormones and fruit production	3–4
• Outlines a plant hormone involved in fruit production OR • Identifies hormones involved in the production of fruit	2
• Identifies a hormone involved in the production of fruit	1

Question 5 (c)

Criteria	Marks
• Shows the relationships between management of inputs in photosynthesis and the effect on plant growth, while providing an outline of the process of photosynthesis	7–8
• Outlines photosynthesis and shows how inputs can be managed OR • Relates the process of photosynthesis to plant growth	5–6
• Outlines the process of photosynthesis OR • Outlines how an input can be managed to affect plant growth	3–4
• Identifies an input(s) into photosynthesis OR • States the equation for photosynthesis OR • Defines plant growth	1–2

Question 6 (a)

Criteria	Marks
<ul style="list-style-type: none">Shows the relationship between a farm practice and an increase or decrease on the level of soil acidification	3
<ul style="list-style-type: none">Sketches in general terms a farm practice that affects the level of soil acidification	2
<ul style="list-style-type: none">Identifies an example of a farm practice related to the level of soil acidification	1

Question 6 (b)

Criteria	Marks
<ul style="list-style-type: none">Shows how governments intervene in land management in agricultural systemsShows how governments intervene in water management in agricultural systems	4
<ul style="list-style-type: none">Shows how governments intervene in either land or water management in agricultural systemsIdentifies how governments intervene in either land or water management in agricultural systems	3
<ul style="list-style-type: none">Identifies how governments intervene in land management in agricultural systemsIdentifies how governments intervene in water management in agricultural systems	2
<ul style="list-style-type: none">Identifies how governments intervene in land management in agricultural systems <p>OR</p> <ul style="list-style-type: none">Identifies how governments intervene in water management in agricultural systems	1

Question 6 (c)

Criteria	Marks
<ul style="list-style-type: none">• Illustrates similarities and/or differences in both the cause of dryland and irrigation salinity, and the management strategies associated with each	7–8
<ul style="list-style-type: none">• Describes the causes of dryland and irrigation salinity• Describes a management strategy for both dryland and irrigation salinity	5–6
<ul style="list-style-type: none">• Describes the causes of dryland and irrigation salinity• Identifies a management strategy for both dryland and irrigation salinity OR <ul style="list-style-type: none">• Identifies the causes of dryland and irrigation salinity• Describes a management strategy for both dryland and irrigation salinity	3–4
<ul style="list-style-type: none">• Identifies the causes of both dryland and irrigation salinity OR <ul style="list-style-type: none">• Identifies a management strategy for both dryland and irrigation salinity OR <ul style="list-style-type: none">• Identifies a cause and a management strategy for either dryland or irrigation salinity	1–2

Agriculture Paper 2

2010 HSC Examination Mapping Grid

Question	Marks	Content	Syllabus outcomes
Question 1 — Agribusiness			
1 (a)	3	Processes in Agricultural Systems	H3.4
1 (b)	4	Innovations, Ethics, Current issues	H5.1
1 (c)	8	Processes in Agricultural Systems	H3.4
Question 2 — Animal Management			
2 (a)	3	Processes in Agricultural Systems	H3.4
2 (b)	4	Innovations, Ethics, Current issues	H5.1
2 (c)	8	Processes in Agricultural Systems	H3.4
Question 3 — Horticulture			
3 (a)	3	Processes in Agricultural Systems	H3.4
3 (b)	4	Innovations, Ethics, Current issues	H5.1
3 (c)	8	Processes in Agricultural Systems	H3.4
Question 4 — Innovation and Diversification			
4 (a)	3	Processes in Agricultural Systems	H3.4
4 (b)	4	Innovations, Ethics, Current issues	H5.1
4 (c)	8	Processes in Agricultural Systems	H3.4
Question 5 — Plant Management			
5 (a)	3	Processes in Agricultural Systems	H3.4
5 (b)	4	Innovations, Ethics, Current issues	H5.1
5 (c)	8	Processes in Agricultural Systems	H3.4
Question 6 — Sustainable Land and Resource Management			
6 (a)	3	Processes in Agricultural Systems	H3.4
6 (b)	4	Innovations, Ethics, Current issues	H5.1
6 (c)	8	Processes in Agricultural Systems	H3.4