BOARD OF STUDIES
NEW SOUTH WALES

2009 HSC Earth and Environmental Science Marking Guidelines

Section I, Part A

Question	Correct Response
1	A
2	B
3	D
4	C
5	A
6	C
7	B
8	B
9	A
10	C
11	D
12	A
13	D
14	D
15	C

Section I, Part B

Question 16 (a)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Correctly names the structure	1

Question 16 (b) (i)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Correctly identifies the type of plate boundary	1

Question 16 (b) (ii)

Outcomes assessed: H8

MARKING GUIDELINES

Criteria	Marks
• Gives a clear description of the tectonic process • Links it clearly to the formation of the mountain range	3
• Provides some understanding of the tectonic process and links it to the formation of the mountain range	2
• Recalls some relevant fact	1

Question 17 (a)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Gives one correct reason	1

Question 17 (b)

Outcomes assessed: H3

MARKING GUIDELINES

Criteria	Marks
• Identifies a relevant technology • Describes a technology • Relates the technology to the prediction of earthquakes	3
• Addresses two of the above criteria	2
• Recalls some relevant fact	1

Question 17 (c)

Outcomes assessed: H4

MARKING GUIDELINES

Criteria	Marks
• Describes an impact of an earthquake on the built environment • Describes one property of earthquakes • Links the impact to the property	3
• Describes an impact of an earthquake OR • Describes an effect this impact this has on the built environment	2
• Identifies an impact of an earthquake OR • Identifies an effect on the built environment OR • Identifies one property of earthquakes	1

Question 18

Outcomes assessed: H7, H8

MARKING GUIDELINES

Criteria	Marks
• Demonstrates a detailed knowledge of subduction and growth of the Australian continent. • Clearly links the role of subduction to the growth of the continent.	4
• Demonstrates a sound knowledge of subduction and growth of the Australian continent. • Attempts to relate subduction to growth of the continent.	3
• Recalls some information about subduction and/or the growth of the Australian continent.	1–2

Question 19 (a)

Outcomes assessed: H7, H13

MARKING GUIDELINES

Criteria	Marks
• Draws a detailed cross-section of a subduction zone • Correctly labels key features	3
• Draws a cross-section of a subduction zone with labels OR • Provides a diagram with key features correctly labeled	2
• Provides some relevant information	1

Question 19 (b)

Outcomes assessed: H2, H12

MARKING GUIDELINES

Criteria	Marks
• Shows a clear understanding of accuracy and relates aspects of the data given to accuracy • Shows a clear understanding of reliability and relates aspects of the data given to reliability	2
• Shows some understanding of accuracy or reliability	1

Question 20 (a)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Names the responsible organism	1

Question 20 (b)

Outcomes assessed: H8

MARKING GUIDELINES

Criteria	Marks
• Outlines the changes in both stromatolite abundance and distribution • Gives reasons for the changes in stromatolite abundance and distribution	3
• Outlines the changes in both stromatolite abundance and distribution OR • States reasons for the change in both stromatolite abundance and distribution OR • Identifies the change in either abundance or distribution and states a reason	2
• Provides some relevant information	1

Question 20 (c)

Outcomes assessed: H7, H8

MARKING GUIDELINES

Criteria	Marks
• Outlines the role of cyanobacteria in oxygen formation • Links oxygen to ozone formation	3
• Addresses ONE of the above criterion	2
• Provides some relevant information	1

Question 21 (a)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Sketches in general terms TWO relevant characteristics of plants	2
• Sketches in general terms ONE relevant characteristic of plants OR • Identifies TWO relevant characteristics of plants	1

Question 21 (b)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Identifies a relevant feature of a terrestrial environment • Outlines a relevant feature of reptiles • Outlines a relevant feature of amphibians • Relates features of both to their relative success	4
• Addresses three of the above criteria OR • Shows an understanding of amphibians and reptiles with respect to the terrestrial environment	3
• Provides some relevant information	1–2

Question 22 (a)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Names one relevant feature	1

Question 22 (b)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Outlines the function of the feature • Identifies an advantage	2
• Provides some relevant information	1

Question 23

Outcomes assessed: H1, H4, H10

MARKING GUIDELINES

Criteria	Marks
• Gives characteristics of an alternative pest management strategy • Comments on features of pesticide use • Relates the alternative strategy to agricultural pests • Makes a judgment about the alternative strategy	4
• Addresses three of the above criteria	3
• Provides some relevant information	1–2

Question 24 (a)

Outcomes assessed: H10

MARKING GUIDELINES

Criteria	Marks
• Identifies process X	1

Question 24 (b) (i)

Outcomes assessed: H10

MARKING GUIDELINES

Criteria	Marks
• Identifies relevant process	1

Question 24 (b) (ii)

Outcomes assessed: H9

MARKING GUIDELINES

Criteria	Marks
• Gives supporting argument for the suitability of the process	2
• Provides some relevant information	1

Question 25

Outcomes assessed: H3, H6, H9

MARKING GUIDELINES

Criteria	Marks
• Identifies two methods used to rehabilitate contaminated sites • Provides reasons why each method is suitable	4
• Identifes two methods used to rehabilitate contaminated sites AND provides one reason for their use OR • Describes one method AND provides reasons for its use	3
• Provides some relevant information	1–2

Question 26 (a)

Outcomes assessed: H9, H12, H14

MARKING GUIDELINES

Criteria	Marks
• Gives the relationship	1

Question 26 (b)

Outcomes assessed: H9, H12, H14

MARKING GUIDELINES

Criteria	Marks
• Outlines a strategy • Uses information from both graphs • Comments on the suitability of the strategy	3
• Outlines a strategy • Uses information from a graph to support the strategy or comments on the suitability of the strategy	2
• Provides some relevant information	1

Question 27

Outcomes assessed: H1, H4, H6, H8, H9, H10, H14

MARKING GUIDELINES

Criteria	Marks
• Demonstrates a breadth or depth of knowledge and understanding of relevant features of the Australian environment, resources and human habitation of the continent • Describes a variety of components that contribute to the extinction of organisms • Links causes and effects • Demonstrates a coherent and logical progression of thought and includes correct use of scientific principles and ideas	6–7
• Displays a knowledge and understanding of relevant features of the Australian environment, resources and human habitation of the continent • Sketches in general some components that contribute to the extinction of organisms • Tenuously links/relates causes and effects • Uses relevant terminology and/or progression of thought	4–5
• Recalls some relevant knowledge of the Australian environment, resources and human habitation that have contributed to the extinction of organisms • Uses some appropriate terminology and/or progression of thought	2–3
• Recalls some information relevant to sustainability or the Australian environment or human arrival or the extinction of organisms	1

Section II

Question 28 (a) (i)

Outcomes assessed: H10

MARKING GUIDELINES

Criteria	Marks
• Identifies a plant	1

Question 28 (a) (ii)

Outcomes assessed: H10

MARKING GUIDELINES

Criteria	Marks
• Gives a reason	1

Question 28 (a) (iii)

Outcomes assessed: H10

MARKING GUIDELINES

Criteria	Marks
• Sketches in general terms how the plant was dispersed	1

Question 28 (a) (iv)

Outcomes assessed: H10

MARKING GUIDELINES

Criteria	Marks
• Gives a control strategy	1

Question 28 (b) (i)

Outcomes assessed: H141d

MARKING GUIDELINES

Criteria	Marks
• Gives a potential risk	1

Question 28 (b) (ii)

Outcomes assessed: H14

MARKING GUIDELINES

Criteria	Marks
• Makes a judgment based on sound criteria • Relates argument to given data	3
• Makes a judgment based on weak criteria • Makes a poor attempt to relate argument to given data	2
• Makes a judgment OR • Identifies a trend in the data	1

Question 28 (c) (i)

Outcomes assessed: H9

MARKING GUIDELINES

Criteria	Marks
• Sketches in general terms criteria used • Provides knowledge of relevant criteria	2
• Provides some relevant information	1

Question 28 (c) (ii)

Outcomes assessed: H9

MARKING GUIDELINES

Criteria	Marks
• Gives similarities or differences between the two methods	2
• Provides some relevant information	1

Question 28 (d) (i)

Outcomes assessed: H11

MARKING GUIDELINES

Criteria	Marks
• Identifies the correct variable	1

Question 28 (d) (ii)

Outcomes assessed: H13

MARKING GUIDELINES

Criteria	Marks
• Draws a correctly labelled appropriate graph	3
• Draws an appropriate graph OR • Provides a graph with correct labels OR • Provides a poorly drawn and labeled graph	2
• Provides some relevant information	1

Question 28 (e)

Outcomes assessed: H14

MARKING GUIDELINES

Criteria	Marks
• Gives the trend of the entire graph • Identifies numerical components of the trend • Gives a reason for the trend	3
• Addresses two of the criteria	2
• Provides some relevant information	1

Question 28 (f)

Outcomes assessed: H3, H4, H6, H9, H10, H14

MARKING GUIDELINES

Criteria	Marks
• Demonstrates a depth or breadth of knowledge and understanding of biotic and abiotic components of the Australian environment • Describes introduced species in Australia • Correctly links impact on biotic and abiotic components to species introduction • Demonstrates a coherent and logical progression of thought and includes correct use of scientific principles and ideas	5–6
• Displays a knowledge and understanding of the biotic and abiotic components of the Australian environment • Sketches in general terms the introduction of species to Australia • Tenuously links/relates changes in the biotic and abiotic components to species introduction • Uses appropriate terminology/language	3–4
• Recalls some relevant knowledge of biotic and abiotic components or introduced species	2
• Recalls some relevant information	1

Question 29 (a) (i)

Outcomes assessed: H6

MARKING GUIDELINES

Criteria	Marks
• Identifies one locality	1

Question 29 (a) (ii)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Names the element	1

Question 29 (a) (iii)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Gives the property	1

Question 29 (a) (iv)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Names a product	1

Question 29 (b) (i)

Outcomes assessed: H6, H9, H12, H14

MARKING GUIDELINES

Criteria	Marks
• Gives a valid economic effect	1

Question 29 (b) (ii)

Outcomes assessed: H5

MARKING GUIDELINES

Criteria	Marks
• Identifies one other energy source • Relates its potential use to future world energy usage • Gives a point for or against its use	3
• Identifies one other energy source • Provides points for or against its use	2
• Provides some relevant information	1

Question 29 (c) (i)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Gives the meaning of catalytic cracking	1

Question 29 (c) (ii)

Outcomes assessed: H1, H7

MARKING GUIDELINES

Criteria	Marks
• Sketches in general terms the processes of diagenesis, catagenesis and metagenesis in petroleum formation	3
• Gives some understanding of the maturation of petroleum	2
• Gives some relevant information	1

Question 29 (d) (i)

Outcomes assessed: H11

MARKING GUIDELINES

Criteria	Marks
• Names the independent variable	1

Question 29 (d) (ii)

Outcomes assessed: H13

MARKING GUIDELINES

Criteria	Marks
• Draws a correctly labelled appropriate graph	3
• Draws an appropriate graph OR • Provides a graph with correct labels OR • Provides a poorly drawn and labeled graph	2
• Provides some relevant information	1

Question 29 (e)

Outcomes assessed: H14

MARKING GUIDELINES

Criteria	Marks
• Gives the trend of the entire graph • Identifies numerical components of the trend • Gives a reason for the trend	3
• Addresses two of the above criteria	2
• Provides some relevant information	1

Question 29 (f)

Outcomes assessed: H3, H4, H6, H9, H10, H14

MARKING GUIDELINES

Criteria	Marks
• Demonstrates a depth or breadth of knowledge and understanding of the geology of coal deposits and petroleum accumulations • Describes exploration techniques • Correctly links geology to exploration techniques • Demonstrates a coherent and logical progression of thought and includes correct use of scientific principles and ideas	5–6
• Displays a knowledge and understanding of the geology of coal deposits and petroleum accumulations • Sketches in general terms some exploration methods • Tenuously links/relates exploration techniques and geology • Uses appropriate terminology/language	3–4
• Recalls some relevant knowledge about coal deposits, petroleum accumulations or exploration methods	2
• Recalls some relevant information	1

Question 30 (a) (i)

Outcomes assessed: H6, H9

MARKING GUIDELINES

Criteria	Marks
• Identifies a landmark decision	1

Question 30 (a) (ii)

Outcomes assessed: H6, H9

MARKING GUIDELINES

Criteria	Marks
• Identifies one effect	1

Question 30 (a) (iii)

Outcomes assessed: H6

MARKING GUIDELINES

Criteria	Marks
• Gives an example	1

Question 30 (a) (iv)

Outcomes assessed: H6

MARKING GUIDELINES

Criteria	Marks
• Identifies a renewable resource	1

Question 30 (b) (i)

Outcomes assessed: H14

MARKING GUIDELINES

Criteria	Marks
• Identifies the correct resource	1

Question 30 (b) (ii)

Outcomes assessed: H8

MARKING GUIDELINES

Criteria	Marks
• Identifies a mineral province and resource(s) • Provide features and characteristics of a model for mineral genesis	3
• Identifies a mineral province and resource(s) • Outlines a model for mineral genesis	2
• Provides some relevant information	1

Question 30 (c) (i)

Outcomes assessed: H3

MARKING GUIDELINES

Criteria	Marks
• Identifies a deposit • Sketches in general terms one exploration method	1

Question 30 (c) (ii)

Outcomes assessed: H6

MARKING GUIDELINES

Criteria	Marks
• Demonstrates an understanding of appropriate infrastructure provided • Relates infrastructure to the feasibility of mining • Makes a judgement as to impact of infrastructure on the feasibility of mining	3
• Outlines appropriate infrastructure provided and attempts to relate infrastructure to the feasibility of mining OR • Gives features and characteristics of infrastructure and of mining	2
• Provides some relevant information	1

Question 30 (d) (i)

Outcomes assessed: H11

MARKING GUIDELINES

Criteria	Marks
• Names the independent variable	1

Question 30 (d) (ii)

Outcomes assessed: H13

MARKING GUIDELINES

Criteria	Marks
• Draws a correctly labelled appropriate graph	3
• Draws an appropriate graph OR • Provides a graph with correct labels OR • Provides a poorly drawn and labeled graph	2
• Provides some relevant information	1

Question 30 (e)

Outcomes assessed: H14

MARKING GUIDELINES

Criteria	Marks
• Gives the trend of the entire graph • Identifies numerical components of the trend • Gives a reason for the trend	3
• Addresses two of the above criteria	2
• Provides some relevant information	1

Question 30 (f)

Outcomes assessed: H3, H4, H6, H9, H10, H14

MARKING GUIDELINES

Criteria	Marks
• Demonstrates a depth or breadth of knowledge and understanding of the impact of mining on the Australian environment and of resource limitations • Makes valid judgements on the sustainability of mining • Demonstrates a coherent and logical progression of thought and includes correct use of scientific principles and ideas	5-6
• Displays a knowledge and understanding of the impact of mining on the Australian environment and of resource limitations • Sketches in general terms some aspects of the sustainability of mining • Tenuously links/relates mining and sustainability • Uses appropriate terminology/language	3-4
• Recalls some relevant knowledge about mining, sustainability	2
• Recalls some relevant information	1

Question 31 (a) (i)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Identifies the value	1

Question 31 (a) (ii)

Outcomes assessed: H7

MARKING GUIDELINES

Criteria	Marks
• Sketches in general terms one process	1

Question 31 (a) (iii)

Outcomes assessed: H8

MARKING GUIDELINES

Criteria	Marks
• States one possible origin	1

Question 31 (a) (iv)

Outcomes assessed: H8

MARKING GUIDELINES

Criteria	Marks
• Names one region	1

Question 31 (b)

Outcomes assessed: H9, H10

MARKING GUIDELINES

Criteria	Marks
• Identifies one consequence of ocean sewage outlets in northern Australia • Links to the diagram	2
• Provides some relevant information	1

Question 31 (c)

Outcomes assessed: H9

MARKING GUIDELINES

Criteria	Marks
• Provides an understanding of society's changed use of an ocean resource • Relates change in use of resources to increased understanding	2
• Provides some relevant information	1

Question 31 (d) (i)

Outcomes assessed: H3

MARKING GUIDELINES

Criteria	Marks
• Gives features of how one named technology works • Relates this to information obtained	2
• Provides some relevant information	1

Question 31 (d) (ii)

Outcomes assessed: H3

MARKING GUIDELINES

Criteria	Marks
• Comments on data about the oceans that new technologies may provide • Makes a judgement as to the potential benefit of additional information	2
• Provides some relevant information	1

Question 31 (e) (i)

Outcomes assessed: H11

MARKING GUIDELINES

Criteria	Marks
• Names the independent variable	1

Question 31 (e) (ii)

Outcomes assessed: H13

MARKING GUIDELINES

Criteria	Marks
• Draws a correctly labelled appropriate graph	3
• Draws an appropriate graph OR • Provides a graph with correct labels OR • Provides a poorly drawn and labelled graph	2
• Provides some relevant information	1

Question 31 (f)

Outcomes assessed: H14

MARKING GUIDELINES

Criteria	Marks
• Gives the trend of the entire graph • Identifies numerical components of the trend • Gives a reason for the trend	3
• Addresses two of the above criteria	2
• Provides some relevant information	1

Question 31 (g)

Outcomes assessed: H3, H4, H6, H9, H10, H14

MARKING GUIDELINES

Criteria	Marks
• Demonstrates a depth or breadth of knowledge and understanding of the variation of physical conditions, including light with depth, marine communities and sediments • Links physical conditions to communities and sediments • Demonstrates a coherent and logical progression of thought and includes correct use of scientific principles and ideas	5–6
• Displays a knowledge and understanding of physical conditions of the ocean • Sketches in general terms marine communities and marine sediments • Tenuously links/relates physical conditions to communities and sediments	3–4
• Recalls some relevant knowledge about physical factors, communities, sediments	2
• Recalls some relevant information	1

Earth and Environmental Science

2009 HSC Examination Mapping Grid

Question	Marks	Content	Syllabus outcomes
Section I Part A			
1	1	9.2.1.2.3	H7
2	1	9.2.5.3.1	H8
3	1	9.2.4.2.5, 14.1(b)	H14
4	1	9.1, 9.2.3.2.2	H7
5	1	9.2.4.2.8	H7
6	1	9.3.4.2.5	H7
7	1	9.3.3.2.5	H7
8	1	9.3.2.2.3, 9.3.5.2.1	H8
9	1	9.3.3.3.1, 9.3.3.2.3, 14.1(a)	H14
10	1	9.3.4.2.2	H2, H7
11	1	H14.1(d), H14.3(c)	H1,H5
12	1	9.4.6.2.3	H2
13	1	9.4.1.2.1	H7
14	1	9.4.6.3.3	H4
15	1	9.4.3.2.2, 13.1(f)(g)	H13, H14
Section I Part B			
16 (a)	1	9.2.2.2.1	H7
16 (b) (i)	1	9.2.1.2.3	H7
16 (b) (ii)	3	9.2.1.2.4	H8
17 (a)	1	9.2.4.2.1	H7
17 (b)	3	9.2.4.2.2, 9.2.4.3.2	H3
17 (c)	3	9.2.4.2.7	H4
18	4	9.2.3.2.1	H7, H8
19 (a)	3	9.2.2.2.1, 9.2.1.2.3, 9.2.1.2.1, 13.1(e)	H7, H13
19 (b)	2	9.2.4.2.5, 12.4(a), 12.4(e)	H2, H12
20 (a)	1	9.3.1.2.2	H7
20 (b)	3	9.3.1.2.2	H8
20 (c)	3	9.3.2.2.2	H7, H8
21 (a)	2	9.3.4.3.2	H7
21 (b)	4	9.3.4.2.3	H7
22 (a)	1	9.3.3.2.5	H7
22 (b)	2	9.3.3.2.4	H7
23	4	9.4.4.2.2, 9.4.4.3.2	H1, H4, H10
24 (a)	1	9.4.5.3.1	H10
24 (b) (i)	1	9.4.5.3.1	H10

Question	Marks	Content	Syllabus outcomes
24 (b) (ii)	2	9.4.5.3.1	H9
25	4	9.4.7.2.3	H3, H6, H9
26 (a)	1	9.4.2.2.1, 12.4(b), 14.1(a)	H9, H12, H14
26 (b)	3	9.4.3.2.2, 12.4b, 14.1(d)	H12, H14
27	7	9.4, 9.3.5, 14.3b	H1, H4, H6, H8, H9 H10, H14
Section II **Question 28 — Introduced Species and the Australian Environment**			
28 (a) (i)	1	9.5.1.3.3	H10
28 (a) (ii)	1	9.5.1.3.3	H10
28 (a) (iii)	1	9.5.4.2.1	H10
28 (a) (iv)	1	9.5.4.2.2	H10
28 (b) (i)	1	9.5.5.2.6, 14.1(d)	H10, H14
28 (b) (ii)	3	9.5.5.2.7, 14.1 (a)	H14
28 (c) (i)	2	9.5.5.2.3	H9
28 (c) (ii)	2	9.5.5.2.2	H9
28 (d) (i)	1	9.5.1.2.3, 11.2 (a)	H11
28 (d) (ii)	3	9.5.1.2.3, 13.1 (f)	H13
28 (d) (iii)	3	9.5.1.2.3, 9.5.2.2.1, 14.1 (a)	H14
28 (e)	6	9.5, 14.3 (b)	H4, H9, H10, H14
Section II **Question 29 — Organic Geology – A non–renewable Resource**			
29 (a) (i)	1	9.6.2.3.1	H6
29 (a) (ii)	1	9.6.1.2.6	H7
29 (a) (iii)	1	9.6.4.2.2	H7
29 (a) (iv)	1	9.6.5.2.1	H7
29 (b) (i)	1	9.6.5.3.3	H6, H9, H12, H14
29 (b) (ii)	3	9.6.6.2.1	H5
29 (c) (i)	1	9.6.4.2.2	H7
29 (c) (ii)	3	9.6.2.2.4	H1, H7
29 (d) (i)	1	9.6.1.3.2, 9.6.2.2.1, 11 2 (a)	H11
(d) (ii)	3	9.6.1.3.2, 13 .1(f)	H13
(d) (iii)	3	9.6.1.3.2, 9.6.2.2.1, 14 i (a), 14 i (g)	H14
29 (e)	6	9.6.3, 14.3 (b)	H3, H4, H6, H9, H10, H14
Section II **Question 30 — Mining and the Australian Environment**			
30 (a) (i)	1	9.7.2.2.1	H6, H9
30 (a) (ii)	1	9.7.2.3.1	H6, H9
30 (a) (iii)	1	9.7.1.2.1	H6
30 (a) (iv)	1	9.7.3.2.1	H6
30 (b) (i)	1	9.7.3	H14
30 (b) (ii)	3	9.7.1.2.2	H8
30 (c) (i)	1	9.7.4.2.1	H3

Question	Marks	Content	Syllabus outcomes
30 (c) (ii)	3	9.7.4.2.5	H6
30 (d) (i)	1	9.7.3.2.6, 11.1 (a)	H11
30 (d) (ii)	3	9.7.3.2.6, 13 1 (f)	H13
30 (d) (iii)	3	9.7.3.2.6, 14 1 (a), 14 1 (g)	H14
30 (e)	6	9.7.3, 9.7.4, 9.7.5, 14.3 (b)	H3, H4, H6, H9, H10, H14
Section II **Question 31 — Oceanography**			
31 (a) (i)	1	9.8.1.2.1	H7
31 (a) (ii)	1	9.8.3.2.3	H7
31 (a) (iii)	1	9.8.1.2.3	H8
31 (a) (iv)	1	9.8.2.2.1	H8
31 (b) (i)	2	9.8.4.2.4	H9, H10
31 (c)	2	9.8.5.2.5	H9
31 (d) (i)	2	9.8.8.2.1	H3
31 (d) (ii)	2	9.8.8.3.1	H3
31 (e) (i)	1	9.8.1.2.1, 9.8.6.3.2, 11 2 (a)	H11
31 (e) (ii)	3	9.8.1.2.1	H13
31 (e) (iii)	3	9.8.1.2.1, 14 1 (a), 14 1 (g)	H14
31 (f)	6	9.8.5, 9.8.6, 9.8.7, 14.3 (b)	H3, H4, H6, H9, H10, H14