2009 HSC Design and Technology Marking Guidelines

Section I

Question	Correct Response
1	A
2	D
3	D
4	B
5	A
6	A
7	B
8	C
9	A
10	B

Section II

Question 11 (a) (i)

Outcomes assessed: H3.2

MARKING GUIDELINES

Criteria	Marks
• Sketches in general terms a creative strategy	2
• Identifies a creative strategy	1

Question 11 (a) (ii)

Outcomes assessed: H3.2

MARKING GUIDELINES

Criteria	Marks
• Provides characteristics and features of a creative strategy and shows how the strategy is used in the design process	3
• Identifies a creative strategy and links this strategy to the design process	2
• Identifies a different creative strategy	1

Question 11 (b)

Outcomes assessed: H3.2

MARKING GUIDELINES

Criteria	Marks
• Identifies issues and provides points for and/or against roles of teams within a creative design process	4
• Describes the role of teams in a creative design process	3
• Outlines a role of teams with a link to a design process	2
• Identifies a role of a team OR a role within a team	1

Question 11 (c)

Outcomes assessed: H3.2, H4.1

MARKING GUIDELINES

Criteria	Marks
• Makes the relationship between experimentation and testing and creativity evident and describes how this influences creativity in the design process	5–6
• Describes how experimentation and testing influences creativity in the design process	3–4
• Outlines how experimentation and testing links to the design process	2
• Identifies a role of experimenting and testing in the design process	1

Section III

Question 12 (a)

Outcomes assessed: H2.1

MARKING GUIDELINES

Criteria	Marks
• Makes the relationship evident between social and economic trends and the need for new methods for carrying out household tasks. Provides specific links to the stimulus	5–6
• Describes how social and economic trends have provided a need for new methods of carrying out household tasks, with links to the stimulus	3–4
• Outlines a social or economic trend	2
• Identifies a social or economic trend OR • Identifies an alternative product	1

Question 12 (b)

Outcomes assessed: H2.1

MARKING GUIDELINES

Criteria	Marks
• Draws out and relates implications between technological change and its impact on the environment by making the relationship between technological change and its impact on the environment evident. Response well supported with examples.	9
• Explains how technological change can have an impact on the environment by making the relationship between technological change and its impact on the environment evident	7–8
• Discusses features of technological change and its impact on the environment	5–6
• Describes technological change and its impact on the environment	3–4
• Outlines a technological change OR • Outlines an impact on the environment	2
• Identifies a technological change OR • Identifies an impact on the environment	1

Question 13 (a)

Outcomes assessed: H4.2

MARKING GUIDELINES

Criteria	Marks
• Makes the relationship evident between Telematics and the impact on safety and ethical issues.	5–6
• Describes safety AND ethical issues with specific links to the Telematic system	3–4
• Outlines a safety or ethical issue with a link to Telematics	2
• Identifies a safety or ethical issue	1

Question 13 (b)

Outcomes assessed: H6.2

MARKING GUIDELINES

Criteria	Marks
• Draws out and relates implications between new technologies and their impact on society by making the relationship between the development of new technologies and the changes to society evident • Response is well supported with examples	9
• Describes features of new technologies and makes the relationship between the development of new technologies and impact on society evident	7–8
• Discusses the development of new technologies and their impact on society	5–6
• Describes new technologies and their impact on society	3–4
• Outlines an impact on society from a new technology	2
• Identifies a new technology or identifies an impact on society	1

Question 14 (a)

Outcomes assessed: H4.1

MARKING GUIDELINES

Criteria	Marks
• Makes the relationship evident between the impact of converged systems and how needs are met within society. Response supported with specific examples	5–6
• Describes a converged system with specific links to needs within society	3–4
• Outlines a converged system with a link to a need within society	2
• Identifies a converged system or identifies a need within society	1

Question 14 (b)

Outcomes assessed: H2.2

MARKING GUIDELINES

Criteria	Marks
• Draws out and relates implications between new products and the effect on society by making the relationship between new products and social and ethical issues evident. Response well supported with examples	9
• Describes features of new products and makes the relationship between the impact of the new product on society evident, through consideration of social and ethical issues	7–8
• Discusses the impacts new products have on society through consideration of social and ethical issues	5–6
• Describes how a new product impacts on society, showing links to a social and/or ethical issue	3–4
• Outlines how a new product may impact on society	2
• Identifies a new product OR a social or ethical issue	1

Design and Technology
2009 HSC Examination Mapping Grid

Question	Marks	Content	Syllabus outcomes
Section I			
1	1	Work of designers	H1.2
2	1	Design factors	H1.1
3	1	Protection of intellectual property	H2.2
4	1	Success of innovation	H3.1
5	1	Presenting information	H5.2
6	1	Needs identification	H1.1
7	1	New technologies	H6.2
8	1	Global trends	H2.1
9	1	Work of designers	H1.2
10	1	Impacts of innovation on society	H2.2
Section II			
11 (a)	2	Creativity in design	H3.2
11 (b)	3	Creative process	H3.2
11 (c)	4	Development of ideas	H3.2
11 (d)	6	Experimentation and testing	H3.2, H4.1
Section III			
12 (a)	6	Social and economic trends	H2.1
12 (b)	9	Changing social trends	H2.1
13 (a)	6	Safety factors	H4.2
13 (b)	9	New technologies	H6.2
14 (a)	6	Needs analysis	H4.1
14 (b)	9	Ethical issues on society	H2.2