

2011 HSC Food Technology Marking Guidelines

Section I

Multiple-choice Answer Key

Question	Answer
1	В
2	С
3	В
4	D
5	С
6	D
7	С
8	В
9	А
10	В
11	D
12	А
13	А
14	D
15	D
16	А
17	С
18	C
19	D
20	С



Section II

Question 21

	Criteria	Marks
• Pro	vides valid meaning of the term ecologically sustainable food production	
OR		2
• Pro	vides a range of ecologically sustainable food production examples	
• Pro	vides general information on ecologically sustainable food production	1

Question 21 (b)

	Criteria	Marks
•	Identifies issues and provides points for and/or against the use of genetically modified crops in food production	4–5
•	Sketches in general terms the use of genetically modified crops in food production	
Α	ND/OR	2–3
•	Identifies a range of issues in the use of genetically modified crops in food production	
•	Provides general information on genetically modified crops and/or genetically modified foods	1

Question 22 (a)

	Criteria	Marks
•	Names THREE processes that transform raw material wheat into flour	2
•	Names TWO processes that transform raw material wheat into flour	1

Question 22 (b)

	Criteria	Marks
•	Provides characteristics and features of a process used to transform wheat into flour	2
•	Provides general information on transforming wheat into flour	1



Question 23

	Criteria	Marks
•	Makes a relationship evident between government legislation and policies and a range of ways they affect the Australian food industry	7–8
•	Provides characteristics and features of government legislation and policies.	
A	ND/OR	5–6
•	Makes a relationship between government legislation and policy and the affect on the Australian food industry	5 0
•	Sketches in general terms government legislation AND/OR policies that affect the Australian food industry	
0	R	3–4
•	Provides characteristics and features of a piece of government legislation or policy.	
•	Provides some information on a government policy or a piece of legislation that is linked to the Australian food industry	1–2

Question 24 (a)

	Criteria	Marks
•	Provides characteristics of the primary function of each additive to foods, using a relevant example	2
•	Identifies a function and/or gives a relevant example	1

Question 24 (b)

	Criteria	Marks
•	Provides reasons why an additive code numbering system is an advantage in food labelling	2
•	Provides an advantage AND/OR general information on the additive code numbering system	1

Question 25 (a)

	Criteria	Marks
•	Makes evident the need for the production of a prototype during the development of a food product	2
•	Provides general information about the production of a food prototype	1



Question 25 (b)

	Criteria	Marks
•	Examines a range of product prototype testing	4
•	Provides characteristics and features of product prototype testing	3
•	Identifies methods of testing product prototypes	2
•	Provides general information about testing product protoypes	1

Question 26 (a)

	Criteria	Marks
•	Correctly names THREE external factors with relevant examples	3
•	Correctly names TWO external factors with relevant examples	
0	R	2
•	Correctly names THREE external factors	
•	Correctly names external factor/s AND/OR example	
0	R	1
•	Correctly names THREE external factors, no examples	

Question 26 (b)

	Criteria	Marks
•	Relates cause and effect of a range of ways the food industry adjusts its pricing structures in response to changes in the economy	5–6
•	Provides characteristics and features of way/s in which the food industry adjusts its pricing structures in response to changes in the economy	3–4
•	Provides general information on pricing structures AND/OR the economy	1–2

Question 27 (a)

	Criteria	Marks
•	Recognises and names a significant health concern associated with/for selected group and provides a reason	2
•	Recognises and names a significant health concern associated with/for selected group	
0	R	1
•	Provides a reason/general information on health concerns for the selected group	



Question 27 (b)

	Criteria	Marks
•	Puts forward a range of changes to dietary intake that would address the nutritional needs of the selected group and makes relationship/s between dietary intake and the nutritional needs of this group	3–4
•	Puts forward change/s to dietary intake that would address the nutritional needs of the selected group and provides characteristics and features	2
•	Provides general information on meals or diets	1

Question 27 (c)

	Criteria			
•	Puts forward a strategy to promote optimum health through good nutrition for the selected group. Supports/links strategy to optimum health	3–4		
•	Provides characteristics and features of a strategy promoting optimum health through good nutrition for a selected group	2		
•	Provides general information on a strategy	1		



Section III

Question 28 (a)

	Criteria				
•	Provides causes for deterioration and spoilage in fruit				
•	Links cause to spoilage	3			
•	Uses appropriate terminology and relevant examples				
•	Indicates some causes of deterioration and spoilage in fruit				
A	ND/OR	2			
•	Gives examples				
•	Provides general information on deterioration and/or spoilage in fruit	1			

Question 28 (b)

	Criteria				
•	Provides characteristics and features of the legislative labelling requirements for a preserved product	4			
•	Uses appropriate terminology				
•	Sketches in general terms the legislative labelling requirements for a preserved product				
0	R	2-3			
•	Identifies the legislative labeling requirements for a preserved product				
•	Provides general information on labelling of a product	1			

Question 28 (c)

	Criteria	Marks
•	Makes evident the relationship between TWO preservation processes and how they extend shelf-life of fruit	7–8
•	Uses appropriate terminology	
•	Provides characteristics and features of TWO preservation processes	5 6
•	Uses terminology	3-0
•	Sketches in general terms TWO preservation processes	
0	R	3–4
•	Provides characteristics and features of ONE preservation process	
•	Provides general information on preservation/processes and/or how shelf-life can be extended	1



Section IV

Question 29

	Criteria	Marks
•	Examines in detail societal changes (ageing, lifestyle, household structures, health and diet-related issues)	
•	Addresses the extent to which food manufacturers and food product developers have responded to these changes	13–15
•	Provides relevant examples, uses appropriate terminology in a logical, cohesive response	
•	Makes relationships between societal changes and the response of food manufacturers and food product developers	10–12
•	Provides examples and uses appropriate terminology	
•	Provides characteristics and features of societal changes providing some links to the response of food manufacturers and food product developers	7–9
•	Provides examples	
•	Sketches in general terms societal changes and/or the response of food manufacturers and food product developers	4–6
•	Provides an example(s)	
•	Provides general information on societal changes and/or responses of food manufacturers and food product developers	1–3

Food Technology 2011 HSC Examination Mapping Grid

Section I

Question	Marks	Content	Syllabus outcomes
1	1	Convenience foods	H1.3
2	1	Sectors of AFI	H1.2
3	1	Quality control (raw materials)	H1.1
4	1	Production to achieve safe food (HACCP)	H1.1
5	1	Levels of operation	H1.4
6	1	Functional foods	H2.1
7	1	Market research	H1.3
8	1	Active non nutrients	H2.1
9	1	GM foods	H1.2
10	1	Environmental impact	H1.2, H1.4
11	1	Society – lifestyle changes	H2.1, H1.4
12	1	Company profitability	H1.3
13	1	Effect of lifestyle(s) nutritional status	H2.1
14	1	Production systems	H1.1
15	1	Food sensitivity/ intolerance/allergies	H2.1
16	1	Role of supplements	H2.1
17	1	Internal factors	H1.3
18	1	Fermentation	H4.2
19	1	Reasoning for FPD (Tech. develop)	H1.3
20	1	Sous vide	H4.2

Section II

Question	Marks	Content	Syllabus outcomes
21 (a)	2	Ecologically sustainable production	H1.2
21 (b)	5	Genetically modified crops	H1.2
22 (a)	2	Processes that transform raw materials into manufactured foods (unit operations)	H1.1
22 (b)	2	Processes that transform raw materials into manufactured foods (unit operations)	H1.1
23	8	Australian Food Industry – Policy and Legislation	H1.2
24 (a)	4	Role of additives in the manufacturing process	H1.1
24 (b)	2	Role of additives in the manufacturing process	H1.1
25 (a)	2	Development of prototype	H1.3
25 (b)	4	Testing product prototype	H1.3
26 (a)	3	External factors	H1.3
26 (b)	6	Pricing strategies	H1.3
27 (a)	2	Nutritional considerations for a specific group you have investigated	Н3.2
27 (b)	4	Nutritional considerations for a specific group you have investigated	Н3.2
27 (c)	4	Nutritional considerations for a specific group you have investigated	Н3.2

Section III

Question	Marks	Content	Syllabus outcomes
28 (a)	3	Causes food deterioration/spoilage (AFI/Food manufacture)	H4.2
28 (b)	4	Legislative requirements/labelling	H1.2
28 (c)	8	Preservation processes	H4.2

Section IV

Question	Marks	Content	Syllabus outcomes
29	15	Ageing population, health-diet related issues, lifestyle, household structures changing (FPD/Contemporary nutrition issues)	H1.3, H2.1, H5.1