Food & Nutrition marking guide

External assessment

Combination response (60 marks)

Assessment objectives

This assessment instrument is used to determine student achievement in the following objectives:

1. recognise and describe facts and principles related to the food system, food formulation and nutrition consumer markets

2. explain ideas and problems related to current and emerging nutrition consumer markets

3. analyse problems, information and data related to current and emerging nutrition consumer markets

4. determine solution requirements and criteria for nutrition consumer market problems

5. synthesise information and data for solutions related to nutrition consumer market problems

7. evaluate and refine ideas and solutions to make justified recommendations for enhancement.

Note: Unit objectives 6 and 8 are not assessed in this instrument.

Purpose

This document is an External assessment marking guide (EAMG).

The EAMG:

- Provides a tool for calibrating external assessment markers to ensure reliability of results
- Indicates the correlation, for each question, between mark allocation and qualities at each level of the mark range
- Informs schools and students about how marks are matched to qualities in student responses.

Mark allocation

Where a response does not meet any of the descriptors for a question or a criterion, a mark of '0' will be recorded. Where no response to a question has been made, a mark of 'N' will be recorded.

External assessment marking guide

Short response

Q	Sample response	The response:
1	A nutrition consumer market is a group of specific consumers who focus on particular nutrient content of foods that they believe will assist their nutritional status.	• provides an accurate explanation **[1 mark]**
2	A fitness-focused consumer who is training for a 25-km run event should pay special attention to low-GI foods, which provide gradual energy release for training. The consumer should also pay special attention to additional hydration during physical activity, as there is increased demand for water.	• identifies a relevant dietary requirement for a fitness-focused consumer **[1 mark]** • provides a justification for this dietary requirement **[1 mark]** • identifies another relevant dietary requirement for a fitness-focused consumer **[1 mark]** • provides a justification for this dietary requirement **[1 mark]**

Q	Sample response	The response:
3	The raspberry pudding could be reformulated, by substituting the coconut milk with a low-fat alternative and removing the chia seeds by substituting with a suitable high-fibre alternative like oats. Replacing coconut milk with a low-fat alternative, like fat-reduced cow's milk, will decrease the saturated fat content of 8.8 g /100g and may reduce the risk of a heart attack. The substitution of 40 g chia seeds with a suitable alternative high-fibre food component, like rolled oats, will make the raspberry pudding easier to eat if a consumer has issues with dentures, while still including dietary fibre, which is required to maintain regularity.	• identifies one reformulation to meet the needs of the elderly NCM **[1 mark]** • justifies this recommendation with data from the stimulus **[1 mark]** • identifies another reformulation to meet the needs of the elderly NCM **[1 mark]** • justifies this recommendation with data from the stimulus **[1 mark]**

Q	Sample response	The response:
4	This consumer should choose Cereal 2 as it has lowest kilojoule content per 100 g at 1487 kilojoules. This would assist in lowering the overall kilojoule content of the diet. It is also low in fat, with 1.5 grams of fat and 0.5 grams of saturated fat per 100 grams, assisting in lowering the overall fat content of the diet. Cereal 2 has the highest amount of dietary fibre, at 11.3 grams per 100 grams. This assists weight loss by reducing hunger for a longer period of time.	• identifies a most appropriate cereal **[1 mark]** • provides a reason to justify this identification, using data from the stimulus **[1 mark]** • provides a second reason to justify this identification using data from the stimulus **[1 mark]** • provides a third reason to justify this identification using data from the stimulus **[1 mark]**

Q	Sample response	The response:	M
5a)	The health claim for this product is not warranted because a Category 1 food, which is a beverage, must score less than 1 to make a health claim. The product's NPSC score is 1.	• identifies that the health claim is not warranted **[1 mark]** • provides an accurate justification for why the health claim is not warranted **[1 mark]**	
5b)	The protein shake will provide 855 kilojoules as an easily digested and used source of carbohydrate energy, due to its composition and liquid form. The protein (23.9 grams) is needed for post-exercise recovery of muscle that is depleted during exercise.	• provides a detailed justification using relevant data from the stimulus	3
		• provides a justification using relevant data from the stimulus	2
		• identifies relevant data from the stimulus	1
		• does not satisfy any of the descriptors above.	0

Extended response — Question 6

Criterion: Analyse the problem to determine the solution requirements, including the stakeholders and their needs (6 marks)

The response for the Food Kit Company:	M	The response for the consumer:	M
• identifies the needs of the Food Kit Company • determines accurate requirements for a solution to meet these needs	3	• identifies the needs of consumers experiencing diabetes • determines accurate requirements for a solution to meet these needs	3
• identifies the needs of the Food Kit Company • provides statements related to a requirement for a solution to meet these needs	2	• identifies the needs of consumers experiencing diabetes • provides statements related to a requirement for a solution to meet these needs	2
• identifies a need of the Food Kit Company **OR** • provides a statement about solution requirements for the Food Kit Company	1	• identifies a need of consumers experiencing diabetes **OR** • provides a statement about solution requirements for consumers experiencing diabetes	1
• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0

Criterion: Synthesising and evaluating — Evaluate how prototype formulations meet the needs of the nutrition consumer market (9 marks)

The response for Prototype formulation 1:	M	The response for Prototype formulation 2:	M	The response for Prototype formulation 3:	M
• evaluates the appropriateness of Prototype formulation 1 for a consumer experiencing diabetes • identifies that Prototype formulation 1 is appropriate for a consumer experiencing diabetes	3	• evaluates the appropriateness of Prototype formulation 2 for a consumer experiencing diabetes • identifies that Prototype formulation 2 is not appropriate for a consumer experiencing diabetes	3	• evaluates the appropriateness of Prototype formulation 3 for a consumer experiencing diabetes • identifies that Prototype formulation 3 is appropriate for a consumer experiencing diabetes	3
• provides reasons as to the suitability of Prototype formulation 1 for a consumer experiencing diabetes	2	• provides reasons as to the suitability of Prototype formulation 2 for a consumer experiencing diabetes	2	• provides reasons as to the suitability of Prototype formulation 3 for a consumer experiencing diabetes	2
• makes statements related to the suitability of Prototype formulation 1 for a consumer experiencing diabetes	1	• makes statements related to the suitability of Prototype formulation 2 for a consumer experiencing diabetes	1	• makes statements related to the suitability of Prototype formulation 3 for a consumer experiencing diabetes	1
• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0

Criterion: Synthesising and evaluating — Evaluate how prototype formulations reflect consumer trends (9 marks)

The response:	M	The response:	M	The response:	M
• accurately concludes how Prototype formulation 1 reflects 3 consumer trends	3	• accurately concludes how Prototype formulation 2 reflects 3 consumer trends	3	• accurately concludes how Prototype formulation 3 reflects 3 consumer trends	3
• accurately concludes how Prototype formulation 1 reflects 2 consumer trends	2	• accurately concludes how Prototype formulation 2 reflects 2 consumer trends	2	• accurately concludes how Prototype formulation 3 reflects 2 consumer trends	2
• accurately concludes how Prototype formulation 1 reflects 1 consumer trend	1	• accurately concludes how Prototype formulation 2 reflects 1 consumer trend	1	• accurately concludes how Prototype formulation 3 reflects 1 consumer trend	1
• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0

Criterion: Synthesising and evaluating — Evaluate prototype formulations for sensory profiling (9 marks)

The response for Prototype formulation 1:	M	The response for Prototype formulation 2:	M	The response for Prototype formulation 3:	M
• analyses the sensory profiling data to make a recommendation about the appropriateness of Prototype formulation 1 • justifies their opinion with evidence from the sensory profiling data	3	• analyses the sensory profiling data to make a recommendation about the appropriateness of Prototype formulation 2 • justifies their opinion with evidence from the sensory profiling data • identifies that Prototype formulation 2 is the preferred option, based on the sensory profiling data	3	• analyses the sensory profiling data to make a recommendation about the appropriateness of Prototype formulation 3 • justifies their opinion with evidence from the sensory profiling data	3
• provides reasons for the suitability of Prototype formulation 1, based on the sensory profiling data	2	• provides reasons for the suitability of Prototype formulation 2, based on the sensory profiling data	2	• provides reasons for the suitability of Prototype formulation 3, based on the sensory profiling data	2
• makes statements related to the suitability of Prototype formulation 1, based on the sensory profiling data	1	• makes statements related to the suitability of Prototype formulation 2, based on the sensory profiling data	1	• makes statements related to the suitability of Prototype formulation 3, based on the sensory profiling data	1
• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0	• does not satisfy any of the descriptors above.	0

Criterion: Synthesising and evaluating — Evaluate and refine ideas and solutions to make justified recommendations for enhancement (9 marks)

The response:	M	The response:	M
• identifies a prototype formulation as the best solution • provides detailed justification for why the prototype formulation was chosen as the best solution	4	• makes effective recommendations for the enhancement of a prototype formulation • justifies these recommendations with detailed and accurate evidence from the stimulus	5
• identifies a prototype formulation as the best solution • provides justifications for why the prototype formulation was chosen as the best solution	3	• makes effective recommendations for the enhancement a prototype formulation • justifies these recommendations with accurate evidence from the stimulus	4
• identifies a prototype formulation as the best solution • provides evidence related to the benefits of this prototype formulation	2	• makes clear recommendations for the enhancement of a prototype formulation • justifies these recommendations with evidence from the stimulus	3
• identifies a prototype formulation as the best solution **OR** • lists evidence related to the benefits of any prototype formulation	1	• makes recommendations for the enhancement of a prototype formulation, justified by evidence from the stimulus that is incomplete or not entirely appropriate	2
• does not satisfy any of the descriptors above.	0	• makes superficial recommendations for the enhancement of a prototype formulation	1
		• does not satisfy any of the descriptors above.	0