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Figures Words Letter



Victorian Certificate of Education 2001

FOOD AND TECHNOLOGY

Written examination

Monday 19 November 2001

Reading time: 11.45 am to 12.00 noon (15 minutes)

Writing time: 12.00 noon to 1.30 pm (1 hour 30 minutes)

QUESTION AND ANSWER BOOK

Structure of book

Number of questions	Number of questions to be answered	Number of marks	
10	10	100	

Materials

• Question and answer book of 15 pages.

Instructions

- Write your **student number** in the space provided on this book.
- All written responses must be in English.

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Answer all questions.

Question 1

It has been estimated that of every 50 food product ideas proposed by food manufacturers, 45 ideas are discarded at the design brief stage. The remaining 5 ideas result in prototypes. Only 2 of these prototypes go into production and only 1 proves commercially successful. Explain why a food product might be eliminated at each of the following stages.

i.	design brief stage	
ii.	prototype stage	
iii.	retail sale stage	
		6 marks

A recent trend in food packaging has resulted in soup being sold in plastic pouches by The Super Soup

Question 2

	aging design.
i	environmental concerns
ii.	properties of the soup
iii.	method of distribution and storage
The	3 ma Amazing Soup Company has developed a direct copy of the soup in pouches.
i.	What term is used to describe this type of product development by The Amazing Soup Company
ii.	Explain why The Amazing Soup Company has developed this direct copy.
	1 + 2 = 3 ma

- **c.** The Super Soup Company has also released a low-salt variation of the original soup.
 - i. What term is used to describe this type of product development by The Super Soup Company?
 - ii. Explain why The Super Soup Company produced this soup.

1 + 2 = 3 marks

Total 9 marks

Question 3

Refer to the graph shown in Figure 1 when answering this question.

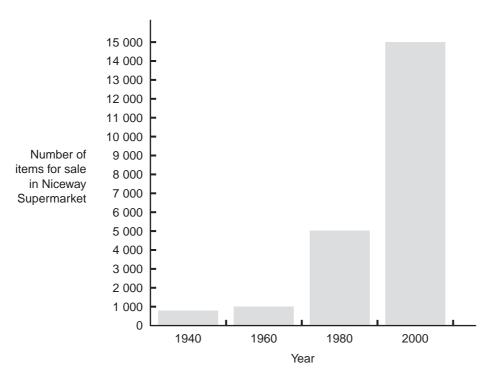


Figure 1

Ex	plain how each of the following factors may have led to an increased number of food products on ermarket shelves.
i.	social pressures
ii.	technology changes
_	
iii.	consumer demand
iv.	industry economics
	8 marks

Modified products hav	2 reverse accounted for some of the increase in the number of products available product.
Define the term modific	eu product.
	1
	act and identify a modified form of this product.
Existing product	
Emisting product	
Modified product The properties of product and mouth feel. Select f	
Modified product The properties of product and mouth feel. Select f	acts include appearance, nutrient content, flavour, texture or consistency, a four properties from this list and write them in the table below. For each pro-
Modified product The properties of produand mouth feel. Select feepplain the difference(s	acts include appearance, nutrient content, flavour, texture or consistency, a four properties from this list and write them in the table below. For each probetween the modified food product and the existing product.
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Modified product The properties of product and mouth feel. Select fexplain the difference(sexplain the difference) Selected property 1.	acts include appearance, nutrient content, flavour, texture or consistency, a four properties from this list and write them in the table below. For each probetween the modified food product and the existing product.

	Provide one example to explain why specific tools/equipment or methods of preparation are selected when using modified food products.			
****	en asing mounted 1994 products.			
	2 marks			
	Total 17 marks			
Questio	n. 1			
To date A Modified	MNZFA [Australian and New Zealand Food Authority] has found no evidence that GM Foods [Genetically If Foods] are less safe than their conventionally produced counterparts – a finding supported by food Is around the world.			
O	ANZFA – August 2000			
modified	our understanding of genetic engineering, discuss the advantages and disadvantages of genetically discode (GM Foods) for both food producers and consumers. In your discussion, provide examples of ducts that have been developed as a result of genetic engineering.			

6 marks

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Figure 2

a.	Natural food components include fats and oils, acids, alkalis, starches and sugars. Explain the role of each
	of the following food components in the Melting Moments shortbread biscuits illustrated in Figure 2.

i.	fat/oil

	ii.	starch
	iii.	sugar
	_	
		6 mark
b.	i.	Describe how the Melting Moments shortbread biscuit could be modified to create a line extension
	ii.	Name a target market for this line extension and explain why it would appeal to this group.
	iii.	Explain three criteria which could be used to determine whether this line extension is acceptable to consumers.

Most food commodities require some form of processing to become suitable for consumption.

Discuss the benefits of secondary processing for both the manufacturer and the consumer.
Manufacturer
Consumer
4 n
Identify one food commodity that undergoes secondary processing and describe the key steps involved

,	Discuss two environmental issues that may arise during food production.
	4 mar
	Total 12 mar
	Describe the cook-chill process used to produce these pizzas.
	2 mar
	Describe two advantages of the cook-chill pizza that would make it more appealing to the target gro than a frozen pizza.

	2 mai
	Identify two advertising or promotional strategies that you would use to market the pizzas and explanation how each strategy would appeal to the target group.
	Strategy 1
5	Strategy 2
-	

4 marks

Total 10 marks

a. In order to prevent deterioration of food, processing techniques such as heating, freezing, dehydration, control of gaseous environment and use of chemicals and additives can be used.

Choose **three** of these processing techniques and explain how each technique prevents deterioration of food. Name a food product which is produced as a result of each technique.

Technique	Explanation	Example of food product

6 marks

outcomes of these	ewo systems in t	ne production	or rood produc	

4 marks

Total 10 marks

Mad cow product list hidden from consumers (The Australian, 24 February 2001) [adapted]

. . . ANZFA [Australian and New Zealand Food Authority] admits that Australia's labelling laws make it difficult for consumers to know if a product contains beef from Europe, where mad cow disease (BSE) from infected beef has been linked to the brain-wasting CJD disorder in humans.

ANZFA spokesman Michael Dack said yesterday that consumers had to be 'quite careful' about buying imported beef products. 'One of the difficulties we've encountered is that under current labelling regulations, the companies are not requested to put a country of origin of each ingredient,' he said.

Cons	numers.	
		3 ma
Iden	tify three labelling requirements that by law must be shown on the label of food products.	
		3 ma
Exp.	ain the role of ANZFA in regulating food standards.	
		2 ma

3 marks

Total 9 marks

An outbreak of food poisoning occurred after a group of executives attended a dinner meeting at one of Melbourne's finest restaurants. Some hours after eating the meal, which consisted of seafood cocktail, roast chicken and fruit salad with cream, many of the diners experienced severe abdominal pain, fever and vomiting.

Identify three unsafe food handling or storage practices that may have occurred in the above case study.

ĽX	plain how each one may have led to the outbreak of food poisoning.
i.	
_	
ii.	
iii.	
a:	6 mar
Cr	uations such as the one described above have contributed to the development of the Hazard Analystical Control Points (HACCP) system. Describe how the use of the HACCP system can ensure for ety.
	3 marl

Total 9 marks