

Victorian Certificate of Education 2002

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

	STUDENT NUMBER					Letter		
Figures								
Words								

FOOD AND TECHNOLOGY

Written examination

Monday 18 November 2002

Reading time: 9.00 am to 9.15 am (15 minutes)

Writing time: 9.15 am to 10.45 am (1 hour 30 minutes)

QUESTION AND ANSWER BOOK

Structure of book

Number of questions	Number of questions to be answered	Number of marks
9	9	100

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners and rulers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or white out liquid/tape.
- No calculator is allowed in this examination.

Materials supplied

• Question and answer book of 13 pages.

Instructions

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

Students are NOT permitted to bring mobile phones and/or any other electronic communication devices into the examination room.

Name a key food commo	dity.	
What is the origin of this	key food commodity?	
Identify a food which res	ults from the secondary processing of this key food co	1 mark ommodity.
Referring to the key food	commodity identified in a. , describe the main steps f	1 mark
primary processing		
		2 marks
secondary processing		
		2 marks

Consumer responses to the question: What change would you most like to see to takeaway food?

11	5% 2% 7% 59%	healthier (59%) nutritionists involved in its design (16%) accurate advertising (11%) better labelling for health (7%) better packaging (5%) cheaper food items (2%)
a.	Explain how the information shown in the pie chart co products which claim to be healthier.	ould lead to the development of new takeaway food
b.	Outline one strategy to successfully market healthier t	2 marks takeaway food products.
c.	Identify one social factor that has contributed to Austra social factor has influenced eating patterns. Social factor Explanation	

d.	Iden item	tify a modified food product that has been designed for a niche market which demands healthier food is.
		fly explain how this product meets the needs of the niche market.
	Foo	d product
		lanation
		1 + 2 = 3 marks
Qu	estion	
a.	Give	e one example of a technology change that has led to the development of new or modified food products.
		2 marks
b.		lain why specific tools/equipment or methods of preparation may be necessary when using modified products. Provide an example.
		2 marks
c.	C00 i.	k-freeze is a technique used increasingly by food manufacturers to provide home meal replacements. Explain the cook-freeze process in a commercial or industrial setting.
		2 marks
	ii.	Explain two reasons a consumer would purchase a cook-freeze home meal replacement rather than preparing a meal using only fresh ingredients.

a. List **two** new packaging techniques and use the table below to explain their features. Give reasons for their development.

Packaging technique	Example of a food packaged using this technique	Explanation of this packaging technique	Reason this technique was developed
			(1 + 1 + 2 + 1) = 10 montes

(1+1+2+1)+(1+1+2+1)=10 marks

b.	Food manufacturers rely on packaging to market food products. Explain how packaging can be used to increase sales.
	2 marks

c.	The production and use of packaging is an important environmental issue. The packaging industry has
	decided to introduce a new award for food manufacturers who demonstrate excellence in environmentally
	friendly food packaging. Identify four criteria which could be used to select the most environmentally
	friendly food packaging.

i.	
ii.	
iii.	
iv.	

4 marks

A new line of flavoured milk aimed at health-conscious young women (aged 18–30) has been launched. Market research by the manufacturer showed that women wanted flavoured milk that contained real fruit, that was high in calcium, had added vitamins and minerals but was lower in fat. This modified milk product would have had both primary and secondary processing.

. i.	State one reason for primary processing of the milk.	
ii.	State one reason for secondary processing of the milk.	l mark
		l mark
Expl i.	lain one role of each of the following natural food components in the flavoured milk. fat	
ii.	sugar	l mark
Dasc		l mark
desig	cribe how each of the factors below would be considered in marketing the new line of flavoured gned for women. broduct	u IIIIK
		l mark
• p	blace	
	1	l mark

		1 m
• p	promotion	1 111
		1 n
A co	ompetitor has decided to produce their own copy of this milk product.	
i.	What term is used to describe this type of product or copy?	
		1
		1 m
• •	Discuss the final collection for the common the collection of the collection and the	
ii.	Discuss the implications for the consumer, the original manufacturer and the producing the copy.	e competitor wh
ii.		e competitor who
ii.		e competitor who
ii.		ne competitor wh
ii.		ne competitor w
ii.		e competitor wh

Authority paves way for irradiated foods adapted from The Courier Mail 18 July 2001

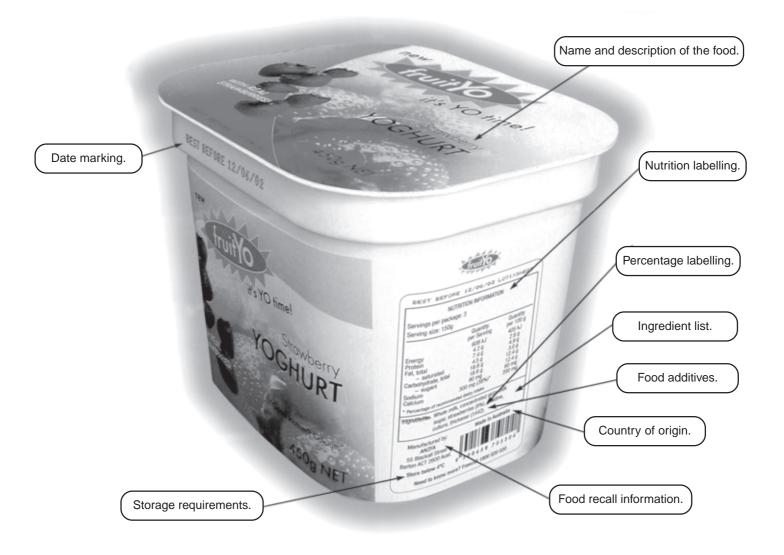
The nation's food watchdog ANZFA has supported Australia's first irradiated food proposal, enabling the potential use of the controversial treatment at a plant just north of Brisbane.

'Approval of this application will bring significant benefits to consumers, industry and government,' it [ANZFA] concluded.

'To allow those consumers who do not wish to consume foods treated with this technology to make an informed choice, irradiated foods will be labelled,' ANZFA said.

	be labelled, ANZI'A said.
	Describe three benefits of irradiation for consumers and/or food producers.
	3 marks
•	Some consumers do not wish to consume foods treated by irradiation. Explain two possible reasons for their decision.
	2 marks
	In the extract above, the Australia New Zealand Food Authority (ANZFA) has been described as the 'nation's food watchdog'. Describe the role of ANZFA in Australia.

d. Select **three** label features from the diagram and explain how a consumer would use each piece of information.



Labelling requirement	How a consumer would use this information

3 marks

Different food production systems produce different quantities and outcomes.

Identify two different food production systems. Provide an example of a food typically produced using each system.

a.	i.	System 1	
		Name of food production system	
		Example of food produced using this system	
			2 marks
	ii.	System 2	
		Name of food production system	
		Example of food produced using this system	
			2 marks
b.	Con	npare the two systems named above.	
			4 marks

In industrial or commercial settings the following processing techniques are used to prevent deterioration of food.

- heating
- freezing
- dehydration
- control of gaseous environment
- use of chemicals and additives

a.		ect one of the processing techniques from the list above and answer the following questions. The of processing technique:
	i.	What food can be processed using this technique?
	ii.	Describe how this processing technique is carried out in a commercial or industrial setting.
	iii.	Explain how this processing technique prevents deterioration of food.
		1 + 2 + 2 = 5 marks
b.	appl	have a friend who is establishing a sandwich shop. Identify one health and safety practice that would by to each of the following stages of food production in the sandwich shop. Justify why each practice equired.
	• 0	lesign of work areas
	• s	torage of raw ingredients

	food handling
	• packaging
	8 marks
_	estion 9 ncrease their market share, a food manufacturer has decided to modify their existing margarine product.
a.	Define the term 'modified food product'.
b.	I mark Identify a modification that could be made to the margarine and describe how it could increase the manufacturer's market share.
c.	2 marks Identify and briefly explain two properties of the margarine that would change as a result of this modification
d.	2 marks The food manufacturer will use sensory evaluation to conduct research into consumer satisfaction with
	the modified margarine.
	i. Explain the purpose of sensory evaluation.
	ii. Explain how sensory evaluation could be carried out.

2 ma
If a consumer used this modified margarine in a recipe, what three criteria could they use to determine the food product they created was acceptable?