

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

	STUDEN	ΓNUMBE	R			Letter
Figures						
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FOOD AND TECHNOLOGY

Written examination

Monday 15 November 2004

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 15 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.

Instructions

Answer all questions in the spaces provided.

Question 1

The owner of a small restaurant called Jack's Café has asked your advice about the health and safety issues that he needs to consider in his business.

a.	Identify one important health and safety practice in each of the following aspects of the business, and describe a consequence of not following each practice.								
	Storage controls								
	Food handling								
	Design of work areas								
The	café owner uses the batch production system to make cakes and biscuits each day.	6 marks							
b.	Describe the main features of the batch production system.								
		2 marks							

Total 8 marks

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The Uncle Tobys company has produced a microwavable breakfast food called Oat Temptations, that is sold in single-serve packaging. This breakfast food is high in fibre and low in fat.

Initially the company conducted market research and recognised a niche market for breakfast foods.

- **a.** i. Identify a possible niche market for this product.
 - ii. Explain two reasons why this product might appeal to the niche market that you identified in part i.

 Reason 1

Reason 2

1 + 2 = 3 marks

Next the company	established a	design brief,	which inc	luded pro	duct ideas,	considerations,	constraints,	and
criteria for evaluat	tion of the new	product. A p	rototype w	as then de	eveloped and	d a trial run was	undertaken.	

	Out	line two considerations or constraints that may have existed in the design brief of this breakfast
		sideration or constraint 1
_		
_	Con	sideration or constraint 2
_		2 marks
·•	i.	Write two criteria questions that the manufacturer could use to evaluate this new product. Criterion 1
		Criterion 2
i	i.	Give one reason why it is important for the manufacturer to undertake this evaluation.
inally	y a	2 + 1 = 3 marksting campaign was used to launch the product.
l . D)es	cribe one factor that may influence the marketing of this product.
		1 markline two marketing strategies that could have been used to promote this product. tegy 1
- S	tra	tegy 2
_		

or 2
2 marks
This product can be prepared in a microwave oven. Over the years the number of food products that can be microwaved has increased. Explain two social factors that have led to this increase. Social factor 1
Social factor 2
Identify two health and safety practices to follow when using a microwave oven. Practice 1
Practice 2

Total 17 marks

Eggs,	milk,	butter a	and marg	arine ar	e ingre	edients	commo	nly ı	used ir	the	preparati	on o	f food	products.	Select
one o	f these	food in	ngredients	s and ar	iswer a	all the f	ollowin	g qu	estions	.					

Foo	d ing	redient selected
a.		tify a modified food ingredient that can be used in food preparation in place of the selected food edient.
	Mod	lified food ingredient
		1 mark
b.	ingr	cribe two differences between the properties (physical, chemical or sensory) of the modified food edient and the original selected food ingredient. Exercise 1
	— Diff	Perence 2
		2 marks
c.		tify a tool that may be used when preparing a food product containing this modified food ingredient explain why it would be used.
		2 marks
d.	i.	Define the term niche market.
	ii.	Identify a niche market for the modified food ingredient named above.
	iii.	Explain how the modified food ingredient meets the needs of the niche market.

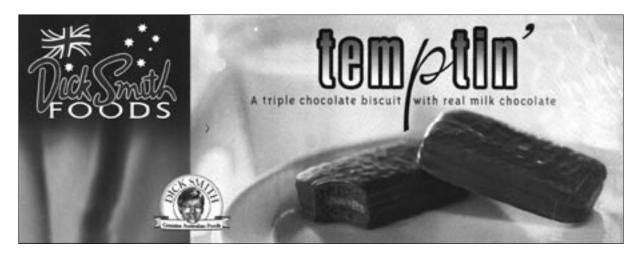
e. i.	Identify a food product that can be made using the modified food ingredient in place of the original selected food ingredient.
ii.	Explain why the modified food ingredient is a suitable substitute for the original selected food ingredient.
	1 + 2 = 3 marks
	Total 11 marks
Select tv	kalis, starches, sugars and fats are all natural food components. of of the food components listed above. Explain a role that each can play in food preparation and ag. Include an example in each of your explanations.
Food cor	nponent 1
Role	
Food cor	mponent 2
Role	
	Total 4 marks

Total 4 marks

An Arnott's Tim Tam biscuit wrapper is shown below.



Requirement 2
Requirement 3
Requirement 4
Identify and explain one function of the packaging of these biscuits.
4 + 2 = 6 marks out's uses continuous processing to produce these biscuits. Describe the main features of continuous sessing.



Arnott's Tim Tam biscuits have been available for many years. Dick Smith Foods has recently begun producing these temptin' biscuits, which are similar to Tim Tams.

- **c. i.** Name this type of product development.
 - ii. Explain one reason why Dick Smith Foods may have produced these biscuits.

1 + 1 = 2 marks



Arnott's have also produced a Chewy Choc Fudge Tim Tam.

- **d. i.** Name this type of product development.
 - ii. Explain one reason why Arnott's may have produced these biscuits.

1 + 1 = 2 marks

Total 12 marks

A 45	
Questi	nn 6
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a.

i.	Define genetic engineering of food.
ii.	Describe two advantages of genetic engineering of food.
11.	Advantage 1
	Advantage 2
iii.	Describe two disadvantages of genetic engineering of food.
111.	Disadvantage 1
	Disadvantage 2

2 + 2 + 2 = 6 marks

b.

1.	Define food irradiation.
ii.	Describe two advantages of food irradiation.
	Advantage 1
	Advantage 2
iii.	Describe two disadvantages of food irradiation.
	Disadvantage 1
	Disadvantage 2

2+2+2=6 marks Total 12 marks

a. Key food commodities include fruit and vegetables, milk and meat. Provide information about each of these key food commodities in the table below.

Key food commodity	Fruit and vegetables	Milk	Meat
Origin of the key food commodity			
Example of a food that results from the primary processing of the key food commodity			
Example of a food that results from the secondary processing of the key food commodity			

marks

in one reason for the secondary processing of food.
_

1 + 1 = 2 marks

i.	Identify and explain one environmental issue that results from the primary processing of food.						
ii.	Identify and explain one environmental issue that results from the secondary processing of food.						
т 1	2 + 2 = 4 marks lentify and explain two health and safety issues associated with the primary and/or the secondary processing						
	lentify and explain two health and safety issues associated with the primary and/or the secondary processing food.						
Issu	e 1						
——Issu	a ?						
	4 mark						

Total 19 marks

Heating,	freezing a	and dehydration	are examples	s of food pro	cessing tech	niques that a	re used cor	nmercially to
preserve	food.							

a.	Select one of the processing techniques listed above, or another processing technique that is used to preserve food.
	Processing technique selected
	Identify a food that is preserved commercially using this technique
	1 mark
b.	Explain how this processing technique preserves the food identified in part a.
c.	Explain two differences in the properties (physical, chemical or sensory) of the processed food in comparison with the food before it was processed.
	2 marks
d.	Identify and explain two advantages to the consumer and/or manufacturer of using this processing technique to preserve the fresh food identified in part a .
	Advantage 1
	Advantage 2
	1 morbs

Total 9 marks

Food Standards Australia New Zealand (FSANZ - formerly known as ANZFA) is the national authority

Question 9

i.	Describe two advantages of food safety regulations for consumers. Advantage 1
	Advantage 2
ii.	Describe two advantages of food safety regulations for manufacturers. Advantage 1
	Advantage 2
FSA	2 + 2 = 4 mark $2 + 2 = 4$ mark $2 +$
	2 mark
	Total 8 mark