Surname				Other	Names			
Centre Nu	mber				Candi	date Number		
Candidate	Signa	ture						

For Examiner's Use

General Certificate of Secondary Education June 2006

DESIGN AND TECHNOLOGY (FOOD TECHNOLOGY) Written Paper Foundation Tier





Friday 23 June 2006 1.30 pm to 3.30 pm

## For this paper you must have:

• a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils

Time allowed: 2 hours

## **Instructions**

- Use blue or black ink or ball-point pen. Use pencil and coloured pencils only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- Answer the questions in the spaces provided.
- Do all rough work in this book. Cross through any work you do not want to be marked.

## **Information**

- The maximum mark for this paper is 125.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers.

F	For Examiner's Use					
Question	Question	Mark				
1		5				
2 6						
3		7				
4						
Total (Co	olumn 1)	-				
Total (Column 2) —						
TOTAL						
Examine	Examiner's Initials					

TP/Jun06/3542/F 6/6/6/6/6 3542/F

## Answer all questions in the spaces provided.

Sav	oury food products may be sold at spo	orting	g events.
(a)	Name <b>three</b> savoury food products t	hat m	nay be held in the hand.
	1		
	2		
	3		(3 marks)
(b)	World-class sporting events attract m		
	Name <b>two</b> different factors that affect	t the	choice of foods made by
	(i) sports people taking part in the events;	1	
		2	(2 marks)
	(ii) people watching the event.	1	(2 marks)
		2	
			(2 marks)

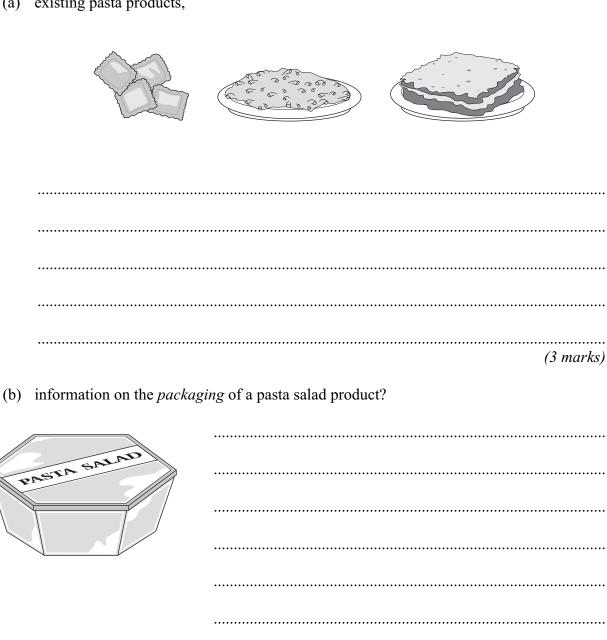
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1

A manufacturer is gathering information about existing products.

What information can they gather from

(a) existing pasta products,



(3 marks)

3 A test kitchen is developing design ideas for savoury snacks.

The snacks will be sold to people watching large sporting events.

The snack product must meet the following design criteria:

- use ready prepared pastry
- have a savoury filling
- be suitable to hold in the hand
- offer a variety of flavours and textures
- appeal to a range of consumers.

Question 3 continues on the next page

TP/Jun06/3542/F Turn over ▶

(a) Use notes and sketches to produce two different design ideas which meet the design

Do <b>not</b> dra	aw any packaging.	
Design idea 1	Product name:	
	(5 mark	ks)
Design idea 2	Product name:	
	(5 mark	ts)

criteria.

(b)	Which of your design ideas will you choose to develop?
	☐ Design Idea 1 ☐ Design Idea 2
	Explain how this idea meets the following design criteria:
	(i) 'suitable to hold in the hand'
	(3 marks)
	(ii) 'appeal to a range of consumers'.
	(3 marks)

Question 3 continues on the next page

	Ingradient	Danson for use
	Give a <b>different</b> reason why each ingredient i	s used.
(d)	Complete the table to show <b>three</b> main ing product.	redients used to make the filling for your
		(1 mark)
	(ii) Give <b>one</b> reason why ready-made pastry	is used.
		(1 mark)
	(i) What type of ready-made pastry is used i	in your design idea?
(c)	Give more details about the ingredients used i	n your chosen design idea.

Ingredient	Reason for use
1	
2	
3	

(6 marks)

Question 3 continues on the next page

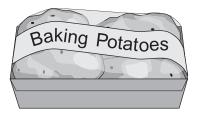
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Sketch						
Sketch						
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seription	••••••	••••••	••••••	••••••	•••••	•••••••
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	•••••	•••••	•••••	•••••		

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(f)

4 The instructions below are shown on the packaging of baking potatoes.



(a) Explain why it is important that the instructions are followed.

	Instruction	Why is this instruction important?
1	'wash before use'	
2	'pierce skin and place on a tray'	
3	'brush surface with vegetable oil and	
	salt before cooking'	

(6 marks)

Question 4 continues on the next page

(b) A test kitchen is developing a new range of **fillings** for the baked potatoes.

The results of a rating test on a new filling are shown below.

Design idea	Curried Chicken filling	Rating test result
50 g chopped, fried chicken,		35%
5 g hot curry powder,		like
5 g peanuts,		65% dislike
5 g sultanas,		
50 g mayonnaise		

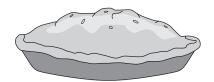
(i) Give reasons why consumers may dislike this design idea.
(4 marks)
(ii) Suggest ways to improve this filling.

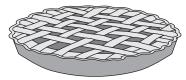
(c)	Design other ideas for savoury fillings for baked potatoes for
	(i) a vegetarian consumer;
	Ingredients
	Reasons for choice
	(5 marks)
	(ii) consumers who prefer a low fat option.
	Ingredients
	Reasons for choice
	(5 marks)

Turn over for the next question

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5 (a) Control checks on batches of vegetable pies show the problems listed below.







Complete the table below to show

(i) one cause of each problem

(4 marks)

(ii) how each problem may be prevented.

(4 marks)

Problem	Cause	How to prevent this problem
Pastry crumbles and breaks up when handled.		
The pie filling leaks out of the pastry during cooking.		
Hairs are found in the filling.		
The final product is pale and lacks colour.		

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(b)	Why are computers used to carry out some control checks?
	(4 marks)

Turn over for the next question

Turn over ▶

6 The table below gives information about two similar pastry products.

Product A:	;	Product B	<b>:</b>
Mixed vegetables in a light	ht pastry case.	Meat, potato and onion w gravy in a chunky pastry	· ·
Energy	146 kcal	Energy	229 kcal
Protein	2.7 g	Protein	3.5 g
Carbohydrates	53.8 g	Carbohydrates	65 g
Fat	4.8 g	Fat	11 g
Fibre	1.7 g	Fibre	0.8 g

(a)	Why is <b>Product A</b> a healthier option than Product B?
	(4 marks)

(	h	) (	i)	Explain	why the	e following	gingredients	are used in	shortcrust	nastry.
1	_	, (	•,	Lipidiii	. Willy cliv	J 10110 W 1112	, 11151 Carento	are asea in	biloi tol ast	pasaj.

Ingredient	Reason for use
Plain flour	
Vegetable fat	
Cold water	
Salt	

(4 marks)

(ii)	Explain how the names of ingredients are listed on the packaging of ready prepared pastry.
	(2 marks)

Question 6 continues on the next page

(i) W	hat does the information	ation mean?	(3 marks)
(ii) W	Thy is the information	n important for consumer	rs? (6 marks)
In	formation	(i) Meaning	(ii) Why is this information important?
Use	e by 7/9/06		
	V		
d) (i) W	hy are food product	s packaged before they a	re sold?
••			
••	•••••	•••••	

(ii)	Explain why the following materials are often used to package food products.
	Paperboard
	(2 marks)
	Aluminium foil
	(2 marks)

Turn over for the next question

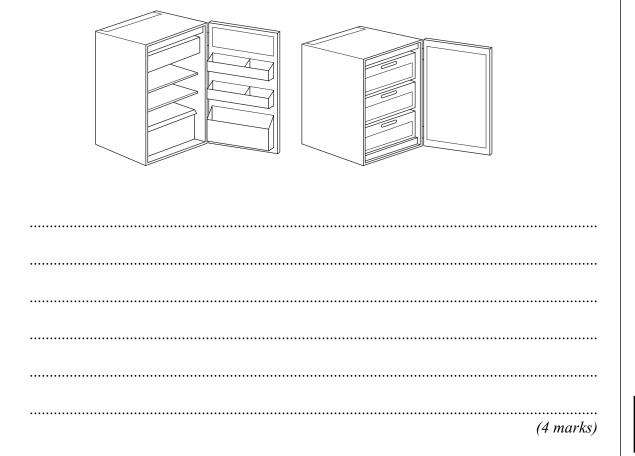
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7 (a) Explain **why** colour coded equipment is used when preparing beefburgers.

(3 marks)
Explain how <b>and</b> why food probes are used when cooking and serving savoury pies.
[HO°C] 88

(b)

(c) Describe how the correct use of refrigerators and freezers ensures that foods are stored safely.



END OF QUESTIONS