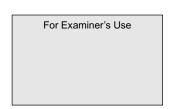
Surname			Other	Names			
Centre Number				Candi	date Number		
Candidate Signa	ture						



General Certificate of Secondary Education June 2007

DESIGN AND TECHNOLOGY (FOOD TECHNOLOGY) (SHORT COURSE) Written Paper Higher Tier





Friday 22 June 2007 1.30 pm to 3.00 pm

## For this paper you must have:

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

Time allowed: 1 hour 30 minutes

## **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 100.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers.

For Examiner's Use						
Question	Question Mark Question					
1		5				
2		6				
3		7				
4		8				
Total (Co	Total (Column 1)					
Total (Column 2) —						
TOTAL						
Examiner's Initials						

TP/Jun07/3552/H 6/6/6/6/ **3552/H** 

## Answer all questions in the spaces provided.

1 Question 1 is about a range of bread products.

Sales of bread products have changed over recent years.

The table below shows sales information for different breads.

	1960	1980	2000
White bread	75%	50%	41%
Bagel	2%	6%	7%
Ciabatta	8%	20%	22%
Croissant	3%	9%	11%
Naan	9%	11%	14%
Others	3%	4%	5%

(a)	Name one research method that manufacturers use to gather this type of information.
	(1 mark)
(b)	Describe how this research method is carried out.
	(3 marks)

(c)	Explain why white bread has become less popular.
	(2 marks)
	(2 marks)
(d)	Explain why Ciabatta bread has become more popular.
	(2 marks)
	(2 marks)

Turn over for the next question

Turn over ▶

**2** Question 2 is about choice of flour.

Many manufacturers are keen to choose ingredients that will make their products healthy options.

The table below compares different types of flours used in bread products.

	Per 100 g				
Type of flour	kcal	Fat	Fibre	Iron	
Wholemeal	310 kcal	2.2 g	8.6 g	3.9 mg	
Strong White	341 kcal	1.4 g	3.7 g	2.1 mg	
Granary	323 kcal	1.8 g	7.0 g	3.2 mg	

(i) Using information from the table, name the type of flour which is most suitable for a healthy option bread product.
(1 mark)
(ii) Give reasons for your choice.
(4 marks)

(a)

(b)	(i)	Name the type of flour from the table that is most suitable for making a <i>well risen</i> loaf of bread.
		(1 mark)
	(ii)	Give reasons for your choice.
		(2 marks)

Turn over for the next question

Turn over ▶

(5 marks)

Question 3 is ab	pout designing new food products.
A takeaway foo	od outlet is developing new ideas for Wrap and Roll bread products.
A successful pro	oduct will
• contai	in a savoury, healthy option filling
• be sui	itable to eat without cutlery
<ul><li>appea</li></ul>	ll to vegetarian consumers
• offer s	sensory appeal.
(a) Use notes a	and sketches to show <b>two</b> different design ideas for a Wrap or Roll product.
Do <b>not</b> dra	aw any packaging.
esign Idea 1	Product name
	(5 1)
	(5 marks)
esign Idea 2	Product name
	A takeaway food  A successful pro

Which of your design ideas will you choose to develop?					
Design Ic	dea 1 Design Idea 2				
Explain how this design idea will be suitable for vegetarians.					
	(4 marks)				
Complete the table to show the	e main ingredients used to make the chosen design idea.				
Give a <b>different</b> reason why e	ach ingredient is used.				
Ingredients	Reasons for use				
	(10 marks)				
	Explain how this design idea was a complete the table to show the Give a <b>different</b> reason why e				

(10 marks)

(d) Produce a plan for making your chosen design idea in a test kitchen.

You may use flow charts, diagrams, notes or sketches in your answer.

(10 marks)

- 4 Question 4 is about control checks used during production.
  - (a) Describe a different control check used during each stage of making bread rolls.

Preparation stage	Control check used
Shaping the dough	
Cooking the bread rolls	

(2 marks)

(b)	What is meant by the term critical control check?	
	Give an example.	
		(3 marks)

Question 4 continues on the next page

(c) Results of control checks show the following problems.

Problem	Causes	How to prevent this problem
Bread rolls do not rise when cooked.		
A wrap falls to pieces when filled.		
An insect is found in a salad sandwich.		
in a saida saidwich.		

Complete	the	table	above	to s	show
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(i) the causes of each problem,

(3 marks)

(ii) how each problem may be prevented.

(3 marks)

Question 5 is about the use of standard components.		
(a)	(i)	What is meant by the term <i>standard component</i> ?
		(2 marks)
	(ii)	What are the advantages and disadvantages of using standard components?
	(11)	what are the advantages and disadvantages of asing standard components.
		(6 marks)

Question 5 continues on the next page

(b) A test kitchen compares samples of the following sandwich fillings.

Product A	Product B	Product C
A tub of tuna and sweetcorn filling	A jar of tuna and sweetcorn filling	A can of tuna and sweetcorn filling
Tuna & Sweetcorn	Tuna & Sweetcorn	Tuna & Sweetcorn

Name and describe one method of sensory testing used to find out consumer preferences for these different types of sandwich fillings.
(6 marks)

(c) Give **two** advantages of **each** of the packaging materials used for the tuna and sweetcorn filling.

Packaging material	Advantages
Plastic tub	1
	2
Glass jar	1
	2
Metal can	1
	2

(6 marks)

20

Turn over for the next question

Turn over ▶

**6** Question 6 is about high risk foods.



Seafood sandwich fillings are popular with many consumers.

(a)	Why is seafood a high risk food?
	(2 marks)
(b)	At what temperature should high risk foods be stored in a refrigerator?
	(1 mark)
(c)	How do retailers ensure that chilled foods do not fall <b>below</b> the correct temperature?
	(4 marks)

Question 7 is about the packaging and labelling of products.		
The following information is often seen on packaged sandwich products.		
'This product may contain wheat, gluten, eggs, milk.'		
Explain how this information may help reduce any risks to the consumer.		
(4 marks)		

Turn over for the next question

Turn over ▶

8	Question 8 is about meeting consumer needs.
	How do food manufacturers of takeaway sandwich products ensure they meet the needs of consumers who follow special diets?
	(8 marks)

**END OF QUESTIONS**