Surname				Other	Names			
Centre Nui	mber				Candi	date Number		
Candidate Signature								



General Certificate of Secondary Education Summer 2003 Foundation Tier

DESIGN AND TECHNOLOGY: FOOD TECHNOLOGY (SHORT COURSE)

3552/F



Friday 6 June 2003 1.30 pm to 3.00 pm

F

In addition to this paper you will require:

a pen, pencil, ruler, eraser, 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 the questions in the spaces provided.
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want marked.

Information

- The maximum mark for this paper is 100.
- Mark allocations are shown in brackets.
- Wherever calculations are needed you should show your working.
- You are reminded of the need for good English and clear presentation.

For Examiner's Use			
Number	Mark		
1			
2			
3			
4			
5			
6			
7			
TOTAL			
Examiner's initials			

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Answer all the questions in the spaces provided.

Question 1 is about collecting information about products.

1

(a)	Give three advantages, with reasons, of buying ready prepared burger products.	
	Advantage	
	Reason	
		(2 marks)
	Advantage	
	Reason	
		(2 marks)
	Advantage	
	Reason	
		(2 marks)
(b)	Describe two ways a computer can be used to find out information about burger produ	icts.
	1	
		(2 marks)
	2	
		(2 marks)



Question 2 is about designing products.

2 (a) Using the survey results below, write a list of design criteria for a ready made barbecue product.An example is given.

Results	General design criteria
burgers 60% kebabs 40%	The product should be a burger product.
Served with a bread product? no 25% yes 75%	
Who is the new product for? adults 33% families 15% children 52%	
Do you like a variety of flavours? no 20% yes 80%	

(3 marks)

	DO	NOT	INCLUDE	PACKAGING	DETAILS.	
. •						
esign	idea 1					
						(5 mayl
						(5 mark
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(5 marks)

(c)	Tick the box to show which design idea best fits the design criteria.
	Design idea 1
	Design idea 2
	Explain how this design idea meets the design criteria.
	(4 marks)

- (d) The **bread product** will be developed in the test kitchen.
 - (i) Describe **three** main ingredients needed to make the **bread product** used in your chosen idea. Explain why each ingredient is used.

Ingredients	Why used

(6 marks)

(ii) Describe, with reasons, **three** different ways of developing a basic bread recipe to give more interest and appeal to children.

Development 1	Reason
Development 2	Reason
Development 3	Reason

(6 marks)

 $\left(\frac{}{29}\right)$

Question 3 is about developing new products in the test kitchen.

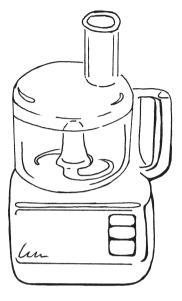
3

(a)	Name a method of sensory testing.
	(1 mark)
(b)	Describe how this method of testing is carried out.
	(6 marks)



Question 4 is about preparing prototypes in a test kitchen.

4 (a) What are the advantages of using a food processor to make coleslaw?



(4 ma	rks)
What food safety rules would be used by food handlers?	
(6 ma	rks)



Question 5 is about industrial production systems.

5 (a) The chart below shows the main stages in making barbecue chicken.
 Give examples of different control checks used at each stage.
 An example is given.

Control checks
Check that foods are fresh and within use by date.

(10 marks)

(b) Feedback from quality control identifies problems during production.

Complete the table below to show:

- (i) the causes of the problems shown;
- (ii) how the problem may be controlled.

Problem	Causes	How to control problem
Uneven sizes of red pepper in a kebab.		
South South		
Burger buns that do not rise when cooked.		
Apples used in a salad go brown.		

(12 marks)

ı) W	Why is food packaged?	
••		
	alads are popular barbecue accompanime. Describe, with reasons, two packaging mat	
	Describe, with reasons, two packaging mat	rerials used for ready prepared salads.
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(6 marks)

Explain, with reasons, the meaning of the following information.	
(i) "Use by 2 nd June" on a rice salad product.	
(2 marks)	
(ii) "Do not refreeze after thawing" on a pack of frozen prawns.	

 $\left(\frac{1}{16}\right)$

TURN OVER FOR THE NEXT QUESTION

(c)

Question 7 is about meeting the needs of consumers.

7

Many consumers prefer healthier option products.
How does the range of barbecue products on sale offer healthier options to consumers?
(6 marks)

END OF QUESTIONS

