Centre Number	Candidate Number	Name

# CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

# FOOD SCIENCE 0635/03

Paper 3 Alternative to Coursework

October/November 2003

2 hours

Candidates answer on the Question Paper.

Additional Materials:

Coloured pencils Compass Eraser Pencil Ruler Ruler

#### **READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in. Write in dark blue or black pen in the spaces provided on the Question Paper. You may use a soft pencil for any diagrams, graphs or rough working. Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer all questions.

At the end of the examination, fasten all your work securely together.

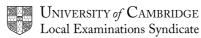
The number of marks is given in brackets [ ] at the end of each question or part question.

If you have been given a label, look at the details. If any details are incorrect or missing, please fill in your correct details in the space given at the top of this page.

Stick your personal label here, if provided.

For Exam	iner's Use
Question 1	
Question 2	
Question 3	
TOTAL	

This document consists of 11 printed pages and 1 blank page.



### Answer all questions.

1 A survey was carried out within a group of ten sixteen year olds on their weekly consumption of fresh fruit. The total number of servings of fresh fruit is shown on the chart below.

Fruit	Servings over seven days
Apple	## ## ## ## ## I
Orange	HH HH IIII
Peach	HH
Pear	HH HH II
Grapefruit	HH
Banana	## ## ## ## II
Plums	HH HH
Grapes	HHT
Pineapple	HH
Melon	

(a) How many apples were eaten by the group during the week?[1]	(i) (a)	(a)
(b) Calculate the average number of servings of fruit per person for the week.	(b)	
[2]		

(ii) Draw a bar graph to show the information on the chart.

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(iii)	Comment on the quality and usefulness of your bar chart.
	roi
(iv)	Suggest <b>two</b> other ways of presenting the data.
	[2]

(v)	Give <b>five</b> factors which could explain why the number of servings of each fruit vary.
	[5]
(vi)	Discuss the importance of a daily supply of fresh fruit. Give named examples of fruit to illustrate your answer.
	[6]

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	ny people enjoy fruit which has been preserved in some way.	
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	ny people enjoy fruit which has been preserved in some way.	
 Mar <b>(i)</b>	ny people enjoy fruit which has been preserved in some way.	
	ny people enjoy fruit which has been preserved in some way.	
	ny people enjoy fruit which has been preserved in some way.	
	ny people enjoy fruit which has been preserved in some way.	
	ny people enjoy fruit which has been preserved in some way.	
	ny people enjoy fruit which has been preserved in some way.	

	(ii)	Exp	lain the importance of the following when preserving fruit:
		(a)	pectin;
			[2]
		(b)	low temperature.
			[2]
			[-]
2	(a) Giv	e two	reasons for each of the following dietary guidelines:
	(i)	redu	uce sugar;
		1	
		2	[2]
	(ii)	redu	uce fat;
		1	
		2	[2]
	(iii)	redu	uce salt.
		1	
			[2]
	(h) liet		ways of reducing the amount of fat in the diet.
	( <b>b</b> ) List	C SIX V	
	••••		
	••••		
			[2]

(c) (i)	What is cholesterol?
	[1]
(ii)	Discuss problems it may cause in the body.
	[3]
(d) (i)	Explain the importance of water in a healthy diet.
	[6]
(ii)	State the result of too low an intake of water.
	[1]

e)	(i)	Explain how you would investigate whether an individual had an adequate daily intake of water. Include a chart if it would be helpful. Identify potential areas of inadequacy.
		[6]
	(ii)	Identify and explain factors which affect an individual's daily water requirement.
		[4]

3 You plan to compare the effects of using different ingredients when making small cakes by the creaming method.

Study the basic recipe for a creamed mixture given below:

100 g (4 oz) plain flour 1 level teasp. baking powder 100 g (4 oz) fat 100 g (4 oz) sugar 2 eggs

(a) Suggest
-------------

(b)

Suggest		
(i)	four ways to vary the type of flour used;	
	1	
	2	
	3	
	4	
(ii)	three ways to vary the fat used;	
	1	
	2	
	3	
(iii)	three different types of sugar.	
	1	
	2	
	3	
	[5]	
(i)	How would you ensure a fair comparison when investigating the effectiveness of the three different types of fat used when making the cakes?	

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[Turn over

(i	i)	Describe, in detail, how you would make and bake the cakes.
		[8]
(c) (	i)	State, with reasons, how you would organise a tasting panel to ensure a fair test of
(-)	,	the samples.
		[4]

(11)	List the qualities you could be investigating in the limshed results.
	[2]
(iii)	Plan a chart which members of the tasting panel could use to record their scores for each of the qualities mentioned above.
	[5]
(iv)	Identify, with reasons, <b>three</b> factors which might influence your choice of fat for the cakes.
	[3]

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