

## **Cambridge International Examinations**

Cambridge <b>IGCSE</b>	Cambridge International Examinations Cambridge International General Certificate of Secondary Education
CANDIDATE NAME	
CENTRE NUMBER	CANDIDATE NUMBER

**FOOD AND NUTRITION** 

0648/01

Paper 1 Theory May/June 2014

2 hours

Candidates answer on the Question Paper.

No Additional Materials are required.

#### 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 ink.

You may use an HB soft pencil for any diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO **NOT** WRITE IN ANY BARCODES.

#### **Section A**

Answer all questions.

You are advised to spend no longer than 45 minutes on Section A.

#### **Section B**

Answer all questions.

### **Section C**

Answer either Question 6(a) or 6(b).

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.

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



## Section A

# Answer all questions.

	Section	on A	1
	Answer <b>all</b> c	on A questions.	non
<b>.</b>			
	e is a good source of calcium.		
•	ame <b>two other</b> minerals and <b>two</b> vitamins	s also lound in cheese.	
	nerals:	Vitamins:	
		1	
2		2	[4]
) Na	ame <b>two</b> diseases caused by a deficiency	y of calcium in the body.	
	sease:		
1		2	[2]
D	escribe <b>two</b> symptoms of <b>one</b> of the disea	ases named in <b>(b)</b> .	
Di	sease		
S	mptom 1		
S	mptom 2		[2]
) (i)	Name the vitamin which helps in the al	bsorption of calcium.	
	Vitamin		[1]
(ii)	Identify two good food sources of this	vitamin.	
	Sources:		
	1	2	[2]
<b>)</b> Id	entify <b>two</b> good food sources of calcium o	other than dairy products.	
So	ources:		
		2	[2
1			•
	neese is often used to add flavour and co	lour to a coating sauce.	

1

www.PapaCambridge.com Complete the following list of ingredients and quantities for a cheese sauce 50g butter 100 g cheddar cheese ..... plain flour 500 ml ..... (iii) Describe the process of making a cheese sauce using the roux method. (g) The fat and protein in cheese can be difficult to digest. Describe and explain how the body breaks down or digests cheese in the mouth and in the ileum. (i) In the mouth ..... (ii) In the ileum

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(a)	Convenience foods often have a high sugar content.
	Convenience foods often have a high sugar content.  Give four other disadvantages of convenience foods.
	1
	2
	3
	4[2]
(b)	Too much sugar can be unhealthy.
	Explain in detail how sugar can cause tooth decay.
	[4]
(c)	Name <b>one</b> other disease that can be caused by a high intake of sugar and explain how too much sugar causes this disease.
	[3]
(d)	Dextrose and malt syrup are alternative names for sugar on food labels.
	Give <b>two</b> other names that can be used for sugar on food labels.
	[2]
(e)	
	Name the <b>three</b> elements that make up all carbohydrates.
(6)	[1]
(f)	Explain the term <i>dextrinisation</i> .
	11.11

[Section A Total: 40]

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## **Section B**

# Answer all questions.

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Section B	S. Call
Answer all questions.	Marie
escribe and explain the following:	www.PapaCambrid
) convection as a method of heat transfer;	
	[6]
hypertension;	
	[5]
pasteurisation.	

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	Fault	causes of these faults in the making of a Victor
	Cake has sunk in the middle.	
	Cake has risen unevenly.	
	Cake has risen to a peak and is cracked.	
	Cake has a hard, sugary crust.	
		[4]
(b)	Complete the flowchart below to se	ummarize the method of making bread.
mixing	kneading ::	
		[2]
		·

;)	Explain the purpose of the kneading process when making bread.

www.PapaCambridge.com 7 (d) Bread and cake both contain carbohydrate and fat. State the energy value of 1 g of carbohydrate and 1 g of fat. carbohydrate ..... fat ...... (a) State how the following foods should be safely stored to minimise food spoilage. potatoes ..... frozen fish ......[4] (b) Salmonella is a type of food poisoning bacteria. Name **three** symptoms of food poisoning. 1 ...... 3 ......[3] **(c)** Pregnant women are advised not to eat soft cheeses. Explain why they should follow this advice.

(d) Suggest six personal hygiene rules that a person preparing food in a kitchen should follow.

1	 2
3	 4

5

(e)	_	gest a material that is suitable to make a kitchen work surface. e <b>two</b> reasons why it is a suitable material.  Material
	(i)	Material
	(ii)	Reasons
		[2]
(f)	The	kitchen can be a dangerous place.
	Des	scribe how to help a person who has received an electric shock from a hand mixer.
		[3]
		[Section B Total: 45]

# **Section C**

# Answer either 6(a) or 6(b).

		the the same of th
		9
		Section C
		Section C  Answer either 6(a) or 6(b).  "Women who follow a vegetarian diet may encounter health problems during and after pregnancy."
6	(a)	"Women who follow a vegetarian diet may encounter health problems during and after pregnancy."
		Discuss this statement making reference to the nutritional needs of the mother and the baby.
		[15]
Or		
	(b)	"Food can be preserved well in a refrigerator, and other methods of preservation are no longer important to consumers."
		<b>Discuss</b> this statement whilst making reference to the reasons for preservation and the principals involved in at least <b>four</b> other methods of preserving food.
		[15]

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[Section C Total: 15]

[Total for Paper: 100]

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