

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME					
	CENTRE NUMBER			CANDIDAT NUMBER	E	
* 2 8	FOOD AND NU	TRITION			0648/01	
7 7	Paper 1 Theory			October/November 2009		
3					2 hours	
5	Candidates answer on the Question Paper.					
1 5	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 pen.					
	You may use a soft pencil for any diagrams or graphs.					
	Do not use stap	les, paper clips, ł	nighlighters	, 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 8 **or** 9.

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.

For Examiner's Use		
Section A		
Section B		
Section C		
Total		

This document consists of 14 printed pages and 2 blank pages.



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[Turn over

	Answer all questions.	
(a)	Name the elements which combine to form protein.	
	12	
	34	
	56[3]	
(b)	State three functions of protein.	
	1	
	2	
	3 [3]	
(c)	Define High Biological Value (HBV) protein.	
	[2]	
(d)	Give four examples of HBV protein.	
	1	
	2	
	3	
	4 [2]	
(e)	Define Low Biological Value (LBV) protein.	
	[1]	
(f)	Give four examples of LBV protein.	
	12	
	34 [2]	

Section A

1

For Examiner's Use (g) Complete the following sentences which describe the digestion and absorption of protein. In the stomach, acid creates a suitable medium for the digestion of protein to begin. There are two enzymes in the stomach. Pepsin converts protein to and clots milk. In the duodenum, the enzyme _____, produced by the _____ continues to convert protein to ______. In the ileum, the enzyme ______ from juice, completes the breakdown of protein to _ Absorption takes place in the ileum. Finger-like projections, known as provide a large surface area. The end products of protein digestion are absorbed into _____. They dissolve in _____ and are carried around the body. [6] (h) Explain how the body deals with excess protein. [3]

For

Examiner's Use

2	(a)	State three functions of calcium.	For
		1	Examiner's Use
		·	
		2	
		3[3]	
	(b)	Name four sources of calcium.	
		12	
		34 [2]	
	(c)	Name the deficiency disease which results from a lack of calcium.	
		[1]	
3	(a)	State two functions of vitamin D.	
		1	
		2 [2]	
	(b)	Name four sources of vitamin D.	
		12	
		34 [2]	
	(c)	The body makes vitamin D when it is exposed to the ultra-violet rays of the sun.	
		Identify two groups of people who will not be able to make vitamin D in this way. In each case, give an explanation.	
		Group 1	
		Explanation 1	
		Group 2	
		Explanation 2 [2]	

For Examiner's Use

4	Explain	the	particular	dietarv	needs	of	teenage	airls.
-	слріант	uic	particular	aictary	necus		loonago	gino.

[6]

5

[Section A Total: 40]

Section B

6

For Examiner's Use

Answer all questions.

5	(a)	Name six nutrients found in red meat.
		12
		34
		56 [3]
	(b)	List four reasons why meat may be tough.
		12
		34 [2]
	(c)	Give four ways of tenderising meat before cooking.
		1
		2
		3
		4 [2]
	(d)	Explain how meat becomes tender during cooking.
		[3]

(e) Processed soya beans can be used to replace meat. Discuss the advantages and disadvantages of processed soya.

For Examiner's Use

[5]

6	(a)	Name thre	e types of convenience food and give one example of each.	For
		Type 1		Examiner's Use
		Example 1		
		Туре 2		
		Example 2		
		Туре 3		
		Example 3	[3]	
	(b)	State the a	dvantages and disadvantages of convenience food.	
			[5]	
	(c)		e pieces of labour-saving equipment which could be found in the kitchen. xample of the use of each.	
		Example 1		
		Use 1		
		Example 2		
		Use 2		
		Example 3		
		Use 3	[3]	

(d)	Give advice on the safe use of electrical equipment in the kitchen.	For Examiner's Use
	[4]	

7	The	following ingredients can be used to make a cake.	For
		100g colf raising (SP) flour	Examiner's Use
		100g self-raising (SR) flour 100g margarine	
		100g sugar	
		2 eggs	
		2 0990	
	(a)	Describe, with reasons, the method of making and baking the cake.	
		[5]	
		[\]	
	(b)	Name two ingredients which could be added to vary the flavour of the cake.	
		1	
		2 [1]	
	(c)	Explain the changes which take place when the cake is baking.	
		[4]	

(d)	The cake is heated by convection and conduction when baking.	For Examiner's
	Explain how each of these methods transfers heat to food.	Use
	[5]	

[Section B Total: 45]

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12

For Examiner's

Use

	Section C	
	Answer either Question 8 or Question 9.	
8		15]
OR		
9	Discuss eggs and their uses in the preparation of dishes.	15]
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		••••
		•••••
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		••••
		•••••
		•••••
		•••••

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[Section C Total: 15]
[Total for Paper: 100]

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