

## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

	CANDIDATE NAME		
	CENTRE NUMBER	CANDIDATE NUMBER	
* 3 0	FOOD AND NU	TRITION	0648/01
9 6 2	Paper 1 Theory	,	May/June 2009 2 hours
0 5 5	Candidates ans	wer on the Question Paper.	2 110015
5 2 7	No Additional M	aterials are required.	
*	READ THESE I	NSTRUCTIONS 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 staples, paper clips, highlighters, glue or correction fluid.

DO NOT WIRTE 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 9 or Question 10.

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 Exam	iner's Use
Section A	
Section B	
Section C	
Total	

This document consists of 13 printed pages and 3 blank pages.



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[Turn over

		Section A	
		Answer <b>all</b> questions.	
1	(a)	Name the elements which make up fat.	
		12	
		3	[3]
	(b)	Fat can be used to provide the body with energy.	
		Name <b>two</b> other sources of energy.	
		12	[2]
	(c)	Identify <b>four</b> uses of energy in the body.	
		1	
		2	
		3	
		4	[4]
2	Vita	amin A and vitamin D are fat-soluble vitamins.	
	(a)	State three functions of vitamin A.	
		1	
		2	
			[3]
	(b)	Name <b>four</b> sources of vitamin A.	
		12	
		34	[2]
	(c)	Name the deficiency disease associated with a lack of vitamin A.	
			[1]

	(d)	State <b>two</b> functions of vitamin D.	For Examiner's
		1	Use
		2 [2]	
	(e)	Name <b>four</b> sources of vitamin D.	
		12	
		34 [2]	
	(f)	Name the deficiency disease associated with a lack of vitamin D.	
		[1]	
3	(a)	Describe the digestion of fat in the duodenum.	
		[3]	
	(b)	Describe the absorption of fat in the ileum.	
		[2]	

4	(a)	Explain the importance of Non-Starch Polysaccharide/NSP (dietary fibre) in a healthy diet.	For Examiner's Use
		[4]	
	(b)	Name <b>four</b> good sources of NSP.	
		12	
		34[2]	
5		ter is vital to life.	
5		Discuss <b>four</b> uses of water in the body.	
	(a)	1	
		2	
		3	
		4	
		4 [4]	
	(b)	Name the condition which results from a deficiency of water.	
		[1]	
			1

(c)	) Give <b>two</b> symptoms of the condition identified in <b>(b)</b> .		
	1	2[1]	Examiner's Use
(d)	Identify, wi	th reasons, <b>three</b> groups of people who have a particular need for water.	
	Group 1		
	Reason 1		
	Group 2		
	Reason 2		
	Group 3		
	Reason 3	[3]	
		[Section A Total: 40]	

0648/01/M/J/09

#### Section B

# Answer **all** questions.

6	(a)	All meals s	hould be balanced.
		Identify, wit	h examples, <b>five</b> other points to consider when planning meals.
		Point 1	
		Example 1	
		Point 2	
		Example 2	
		Point 3	
		Example 3	
		Point 4	
		Example 4	
		Point 5	
		Example 5	[5]

(b)	Discuss the particular dietary needs of pregnant women.	For Examiner's
		Use
	[5]	
(c)	Explain the problems associated with a diet which is high in fat.	
	[5]	

7	Wri	te an informative paragraph on each of the following:	For
	(a)	different uses of sugar in the preparation of dishes;	Examiner's Use
		[5]	
		[9]	
	(b)	rules, with reasons, for successful shortcrust pastry;	
		[5]	
		[5]	

	(c)	High Biological Value (HBV) protein for vegans.
		[5]
8	(a)	Name <b>six</b> nutrients in fish.
		12
		34
		56 [3]
	(b)	Explain <b>three</b> methods of preserving fish.
		Method 1
		Explanation
		Method 2
		Explanation
		Method 3
		Explanation [3]

<b>(c)</b> Fry	ing is a popular method of cooking.
(i)	Give three reasons for coating some foods before frying.
	1
	2
	3 [3]
(ii)	Suggest <b>two</b> suitable coatings.
	1
	2 [2]
(iii)	Explain <b>four</b> safety points to consider when frying.
	1
	2
	3
	4
	[4]
	[Section B Total: 45]

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#### Section C

12

For	
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Use	

Answer either Question 9 or Question 10.

**9** Explain the steps you would take when preparing, cooking and serving food to ensure that it is safe to eat. [15]

# OR

**10** Discuss methods of heat transference when cooking and the advantages and disadvantages of each method. [15]

0648/01/M/J/09


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[Section C Total: 1	5]
[Total for Paper: 10	0]

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