

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		



FOOD AND NUTRITION

0648/11

Paper 1 Theory

October/November 2017

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 pen.

You may use an HB 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

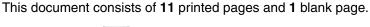
Answer all questions.

Section C

Answer either Question 10(a) or 10(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.



Section A

Answer all questions.

	דן	ot
(а) Ехр	plain why the following groups of people require higher levels of protein in their diet:	
(i)	children;	
(ii)	athletes;	
(iii)	women who are breast-feeding.	
(b) Na	me two different sources of high biological value (HBV) protein.	
1 .	2	
(c) De	scribe the action of trypsin during the digestion of protein.	
(d) Na	me one deficiency disease caused by a lack of protein.	
	fine the following terms:	
(i)	denaturation;	
•		
(ii)	coagulation	• • • •

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(a)	State one difference between fats and oils.
(b)	Give four functions of fat in the body.
	1
	2
	4
	[4]
(c)	Describe the action of lipase during the digestion of fat.
	[1]
(d)	The diagram shows part of the structure of a fatty acid.
	H H H
	Name the type of fat produced by this kind of fatty acid.
	[1]
(e)	Explain why eating too much fat could cause heart disease.
	[2]
	[Total: 9]

4 Complete the following table.

mineral	function	problem caused by a deficiency	source
calcium	formation of bones and teeth		
iron			liver
iodide		goitre	
sodium			salt

[Total: 8]

5	Exp	plain the effects of the following temperatures on bacteria:	
	(a)	–18°C;	
			[1]
	(b)	above 75 °C.	
			[1]

[Total: 2]

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(a)	Scurvy is caused by a deficiency of vitamin C.
	Describe four symptoms of scurvy.
	1
	2
	3
	4[4]
(b)	Explain, with reasons, how to prepare and cook green cabbage to retain its vitamin C content
	[6]
	[Total: 10]

Section B

Answer all questions.

7	(a)	Biscuits can be made by the creaming method.	
		Name two other methods which could be used to make biscuits.	
		1	
		2	
			[2]
	(b)	A basic recipe for making plain biscuits uses:	
		100 g flour 50 g fat 50 g sugar 1 egg yolk	
		Suggest, with a reason, a suitable type of each of the following ingredients for making the b	iscuits.
		(i) type of flour	
		reason	
			[2]
		(ii) type of fat	
		reason	[2]
		(iii) type of sugar	
		reason	
			[2]
	(c)	Suggest three ways to decorate the biscuits after baking.	
		1	
		2	
		3	
			[3]
	(d)		
		Give four advantages of using this type of packaging material.	
		1	
		2	
		3	
		4	

[4]

	7
(e)	Nutritional information is often given on a food label.
	List five other pieces of information which may be found on a food label.
	1
	2
	3
	4
	5[5]
	[Jotal: 20]
	[Total. 20]
(a)	Name the parts of an egg labelled A – E .
	E C
	A
	В
	c
	D
	E
(b)	Give four guidelines to follow when storing eggs. 1

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(c)	Eggs can be used to add nutritive value to dishes.
	Name three other functions of eggs in cooking. Give an example in each case.
	function 1
	example
	function 2
	example
	function 3
	example[6]
(d)	Identify two groups of people who may be put at risk by eating eggs. Give reasons for your answers.
	group 1
	group 2
	reasons
	[4]
	[Total: 19]
	[
(a)	Name a type of vegetarian that does not eat eggs.
	[1]
(b)	Give five reasons why some people choose to follow a vegetarian diet.
	1
	2
	3
	4
	5[5]
	[Total: 6]

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Section C

Answer either Question 10(a) or 10(b).

10	(a)		scribe and explain the specific nutritional needs of an elderly person. Suggest ways ch the elderly can save money when shopping for food.	ir [5]
OR				
	(b)	Des	scribe and explain the following aspects of microwave ovens:	
		(i)	how food is cooked in a microwave oven;	
		(ii)	disadvantages of cooking in a microwave oven;	
		(iii)	safety when using a microwave oven. [1	15

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