

### **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

FOOD AND NU Paper 1 Theory		0648/13 May/June 2017 2 hours
CENTRE NUMBER	CANDIDATE NUMBER	
CANDIDATE NAME		

No Additional Materials are required.

Candidates answer on the Question Paper.

#### **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 11(a) or 11(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 14 printed pages and 2 blank pages.



## **Section A**

# Answer all questions.

1 (a)	Nar	me the <b>three</b> chemical elements which form fats and oils.
	1	
(b)	Sta	te <b>two</b> facts about monounsaturated fats.
	1	
	2	
		[2]
(c)	Nar	me <b>two</b> different sources of polyunsaturated fats.
	1	
	2	[2]
(4)	(i)	Name the type of enzyme which is involved in the breakdown of fat in the digestive
(u)	(1)	system.
		[1]
	(ii)	Name the end products of fat digestion.
		[1]
(e)	Die	tary advice recommends reducing the intake of saturated fat.
	Sug	ggest <b>five</b> ways the intake of saturated fat could be reduced in meals.
	1	
	2	
	5	[5]
(f)	Nar	me the deterioration process caused by the oxidation of fats and oils.
		[1]
		[Total: 13]

2	(a)	Name the nutrient formed from amino acids.	
			[1]
	(b)	List three sources of this nutrient suitable for a lacto-vegetarian.	
		1	
		2	
		3	[3]
			[Total: 4]
3	(a)	Vitamin A is involved in the production of visual purple.	
		Give another name for this vitamin.	
			[1]
	(b)	List three different plant sources of vitamin A.	
		1	
		2	
		3	[3]
	(c)	Name <b>one</b> effect on the body of a deficiency of vitamin A.	[0]
			[1]
			[Total: 5]

4	(a)	Vitamin D (cholecalciferol) is involved in the absorption of calcium.	
		List three different sources of vitamin D.	
		1	
		2	
		3	
			[3]
	(b)	Name <b>one</b> deficiency disease which affects children due to a lack of vitamin D.	
			[1]
	(c)	Name <b>one</b> deficiency disease which affects adults due to a lack of vitamin D.	
			[1]
			[Total: 5]
5	(a)	Vitamin C is involved in the prevention of scurvy.	
		State <b>one</b> symptom of this deficiency disease.	
			[1]
	(b)	List <b>three</b> other functions of vitamin C.	
		1	
		2	
		3	
			[3]
			[Total: 4]

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6	(a)	Iron is involved in the prevention of anaemia.
		Name <b>two</b> different plant sources of iron.
		1
		2[2
	(h)	Name <b>two</b> different animal sources of iron.
	(D)	1
		2
		[2]
		[Total: 4]
7	Sug	gest <b>five</b> reasons for the use of additives in convenience foods.
	1	
	2	
	3	
	4	
	5	
		[5]
		[Total: 5

## **Section B**

# Answer all questions.

8	(a)	(i)	Name the gas produced when bicarbonate of soda is used to make gingerbread.
		(ii)	Give <b>two</b> reasons why spices are used when making gingerbread.
			1
	(b)	List	three methods of introducing air into a mixture.
		1	
		2	
		3	[3]
	(c)	Nar	me the raising agent used in each of the following products:
		(i)	a bread roll;
		(ii)	a sausage roll made with flaky pastry;
			[1]
		(iii)	a Yorkshire pudding;
			[1]
		(iv)	scones.
			[1]
			[Total: 10]

Question 9 starts on the next page.

**9** The following ingredients can be used to make sweet scones:

200 g self-raising flour ½ level tsp salt 50 g butter 25 g caster sugar 125 ml milk

(a)	List the steps used to make the scone dough.
	[5]
(b)	Give <b>three</b> functions of the butter in the recipe.
	1
	2
	3
	[3]
(c)	Name <b>two</b> ingredients which could replace the caster sugar in the sweet scones to produce savoury scones.
	1
	2
	[2]

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(d)		gest <b>three</b> ingredients which could be changed or added to this recipe to make it suita a person who suffers from constipation.	able
	1		
	2		
	3		
			[3]
(e)	Give	e two different reasons for the following faults:	
	(i)	the scones are doughy in the middle;	
		1	
		2	
			[2]
	(ii)	the scones are too thin.	
		1	
		2	
(4)	•		[2]
(f)	Sco	nes wrapped in plastic packaging can be bought from supermarkets.	
	List	four advantages of plastic as a packaging material.	
	1		
	2		
	3		
	4		
			[4]

**(g)** Give **one** advantage to the consumer of each of the following information points shown on a food label.

	information point	advantage
(i)		
		[4]
		[1]
(ii)	freeze on day of purchase	
		[1]
(iii)	this product contains wheat	
		[1]
(iv)		
	<b>\</b>	[1]

[Total: 25]

(a)	Suggest <b>six</b> reasons why preserved foods are useful in the home.	
	1	
	2	
	3	
	4	
	5	
	6	
		[6]
(b)	Give <b>one</b> example of preserving food in the home by:	
	(i) the use of high temperature;	
		[1]
	(ii) the use of an acid.	
		[1]
(c)	Explain the importance of blanching vegetables before they are frozen.	
		[2]
		[Total: 10]

10

## **Section C**

# Answer either Question 11(a) or 11(b).

11	(a)	meals for a toddler (1–2-year-old child). [15
OR		
	(b)	Compare and contrast the advantages and disadvantages of frying and steaming as methods of cooking.

•••
•••
•••
•••
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• • •
•••
• • •
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 •••
 •••
•••

[Total: 15]

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