

### **Cambridge International Examinations**

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME				
CENTRE NUMBER		CANDIDATE NUMBER		

297103728

#### **FOOD AND NUTRITION**

0648/11

Paper 1 Theory

October/November 2015

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 7(a) or 7(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 13 printed pages and 3 blank pages.



## Section A

# Answer all questions.

1	(a)	Name the <b>four</b> main chemical elements which make up protein.			
		1			
		2			
		3			
		4[2]			
	(b)	State <b>three</b> functions of protein in the body.			
		1			
		2			
		3[3]			
	(c)	Complete the following sentences which describe the digestion of protein.			
		In the stomach, acid provides suitable conditions to start the digestion of protein. The enzyme pepsin then converts protein to and			
		the enzymeclots milk.			
		In the duodenum, the enzyme, produced by the pancreas, continues			
		to breakdown protein. In the, the enzyme erepsin from intestinal			
		fluid completes the breakdown of protein to			
	(d)	Explain what happens to protein when heated.			

(e)	Define the terms high biological value (HBV) protein and low biological value (LBV) protein. Give <b>two</b> examples of <b>each</b> .
	HBV
	example 1
	example 2
	LBV
	example 1
<b>/£</b> \	example 2
(f)	Explain ways in which vegans can obtain sufficient amounts of HBV protein in their diet.
	[5]
	[Total: 19]

2

[1]
[1]
[1]
[1]
[1]
[2]
[1]
[1]
[Total: 9]

3

(a)	Sta	te <b>two</b> reasons for including salt (sodium chloride) in the diet.	
	1		
	2		
			.[2]
(b)	Des	scribe <b>two</b> situations where people might require additional salt.	
	1		
	2		
			.[2]
(c)	Giv	e <b>two</b> symptoms of a diet deficient in salt.	
	1		
	2		.[2]
(d)		ne people are advised to reduce salt in their diet. Using herbs and spices is one way owing this advice.	/ of
	(i)	Suggest four other ways of reducing salt in the diet.	
		1	
		2	
		3	
		4	
	(ii)	Write an informative paragraph on the use of herbs and spices in cooking.	.[—]
			.[4]

[Total: 12]

### **Section B**

### Answer all questions.

**4 (a)** Complete the table by naming **two** further categories of food available from a fresh fish counter. Complete the examples. Two examples have been given for you.

category	example 1	example 2
	haddock	
		mackerel
shellfish		

[6]

(b)	Name <b>two</b> fat-soluble vitamins which can be found in fish. Give a function of each vitamin.
	vitamin 1
	function
	vitamin 2
	function
	[4
(c)	State <b>two</b> points you would look for when buying fresh fish.
	1
	2[2
(d)	Name <b>two</b> methods of preserving fish and explain the principles of preservation involved.
	method 1
	principles
	method 2
	principles
	ro

(e) (i)	Discuss the benefits of coating fish in batter.
	[4]
(ii)	Deep-frying can be dangerous. Give safety advice, with reasons, when using this method of cooking.
	[5]
(iii)	Describe how to treat a burn on the hand caused by hot fat.
	[2]

(iv)	Describe how to deal with a deep-fat fryer which has caught fire.			
	[2]			
	[Total: 21]			
	[Total: 31]			

5 The following ingredients can be used to make a Swiss roll:

3 eggs 75 g plain flour 75 g caster sugar

(a)	Describe, with reasons, the method of making the Swiss roll mixture.
	[4]
(b)	The Swiss roll mixture is heated by convection and conduction when baking.
	Explain how each of these methods transfers heat to the Swiss roll.
	convection
	conduction
	[4]
	[Total: 8]

6

Sug	igest points to consider when:
(a)	choosing a new cooker;
(b)	disposing of kitchen waste.
(b)	disposing of kitchert waste.
	[3]
	[Total: 6]

# **Section C**

# Answer either Question 7(a) or 7(b).

7	(a)	Discuss the roles that lifestyle and religion play in affecting food choices.	[15]
OR			
	(b)	Discuss the reasons why it is important to package and label food products.	[15]
			•••••



[Total: 15]

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