UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

FOOD AND NUTRITION

0648/01

Paper 1 Theory

May/June 2006

Candidates answer on the Question Paper. No Additional Materials are required. 2 hours

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 rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Section A

Answer **all** questions in the spaces provided on the Question Paper. You are advised to spend no longer than 45 minutes on Section A.

Section B

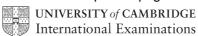
Answer all questions in the spaces provided on the Question Paper.

Section C

Answer **either** question 8(a) **or** 8(b) on the lined pages at the end of the Question Paper. The number of marks is given in brackets [] at the end of each question or part question.

| For Examiner's Use | | |
|--------------------|--|--|
| 1 | | |
| 2 | | |
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| 7 | | |
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| Total | | |

This document consists of 11 printed pages and 1 blank page.



Section A

Answer all questions

| 1 | (a) | Naı | me the elements which combine to form fat. | |
|---|-----|-------|--|-----|
| | | | | [3] |
| | (b) | Sta | te four functions of fat. | |
| | | 1. | | |
| | | 2. | | |
| | | 3. | | |
| | | 4. | | [4] |
| | (c) | (i) | Define the term 'saturated fat'. | |
| | | | | |
| | | | | [2] |
| | | (ii) | Give two examples of saturated fat. | |
| | | | | [1] |
| | (| (iii) | Define the term 'polyunsaturated fat'. | |
| | | | | |
| | | | | [2] |
| | | (iv) | Give two examples of polyunsaturated fat. | |
| | | | | [1] |
| | (d) | Des | scribe the digestion and absorption of fat. | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | [5] |

| | (e) | What could be the result of an excess of sa | turated fat in the diet? | |
|---|-----|--|-----------------------------------|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | [4] | |
| 2 | Nor | n-Starch Polysaccharide (NSP) / dietary fibre | e is essential in a healthy diet. | |
| | (a) | State the functions of NSP. | | |
| | | | | |
| | | | | |
| | | | [3] | |
| | (b) | Name two possible results of a lack of NSF | o in the diet. | |
| | (c) | 1. Name four good sources of NSP. | 2 [1] | |
| | | 1 | 2 | |
| | | 3. | 4[2] | |
| 3 | (a) | State and explain five uses of water in the | body. | |
| | | 1 | | |
| | | | | |
| | | 2 | | |
| | | | | |
| | | 3. | | |
| | | | | |
| | | | | |
| | | 4. | | |
| | | | | |
| | | 5. | | |
| | | | [5] | |

| | (b) Define the term 'water balance'. |
|---|---|
| | |
| | [1] |
| 4 | Give advice, with reasons, on the choice and cooking of food for the elderly. |
| | |
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| | |
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| | |
| | |
| | [6] |
| | [Section A Total : 40 marks] |

Section B

Answer all questions

| 5 | (a) | Name six of the nutrients in milk. |
|---|-----|--|
| | | |
| | | |
| | | [3] |
| | (b) | List four rules to follow for storing milk. |
| | | 1 |
| | | 2 |
| | | 3. |
| | | 4. [2] |
| | (c) | Name four milk products. |
| | | |
| | | [2] |
| | (d) | Explain why milk becomes sour. |
| | | |
| | | |
| | | [2] |
| | (e) | Describe the following methods of preserving milk: |
| | | (i) pasteurising; |
| | | , |
| | | |
| | | [3] |
| | | (ii) Ultra Heat Treatment (UHT). |
| | | , |
| | | |
| | | [3] |

| 6 | (a) | Sta | te five reasons for cooking food. Give an example to illustrate each reason. |
|---|-----|------|--|
| | | Rea | ason 1 |
| | | Exa | ample 1 |
| | | | ason 2 |
| | | Exa | ample 2 |
| | | Rea | ason 3 |
| | | | ample 3 |
| | | | ason 4 |
| | | | ample 4 |
| | | | ason 5 |
| | | | ample 5[5] |
| | | | |
| | (b) | | cuss the advantages and disadvantages of each of the following methods of cooking: |
| | | (i) | steaming; |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | [3] |
| | | (ii) | frying; |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | [3] |

| | (i | iii) | using a microwave oven. |
|---|------------|------------|---|
| | | 1 | |
| | | 1 | |
| | | 1 | |
| | | 1 | |
| | | 1 | |
| | | | [4] |
| 7 | The | follo | wing ingredients can be used to make a Victoria sandwich cake: |
| | | | 100g plain flour 1 level teasp. baking powder 100g sugar 100g fat 2 eggs. |
| | (a) | Desc | cribe the method of making and baking the cake. |
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| | į | | |
| | 1 | | |
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| | • | | [5] |
| | (b) | Sugg | gest two ways of varying the cake. |
| | | 1 | |
| | | 2. | [1] |

| (c) | Giv | e advice, with reasons, on the choice of the following ingredients for the cake: |
|-----|-------|--|
| | (i) | flour; |
| | | |
| | | |
| | | |
| | | roi . |
| | | [2] |
| | (ii) | sugar; |
| | | |
| | | |
| | | |
| | | [2] |
| | | |
| | (iii) | fat. |
| | | |
| | | |
| | | |
| | | [2] |
| | | [2] |
| (d) | Des | scribe and explain the changes which take place when the cake is baked. |
| | | |
| | | |
| | | |
| | | [3] |
| | | |

[Section B Total : 45 marks]

Section C

Answer either 8(a) or 8(b)

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

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