

**Friday 18 January 2013 – Afternoon**

**A2 GCE HOME ECONOMICS  
Food, Nutrition and Health**

**G004/01** Nutrition and Food Production

Candidates answer on the Question Paper.

**OCR supplied materials:**

None

**Other materials required:**

None

**Duration:** 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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**INSTRUCTIONS TO CANDIDATES**

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- There are two sections in this paper.  
**Section A 25 marks**  
 Answer question 1.  
**Section B 50 marks**  
 Answer **two** questions only.
- Do **not** write in the bar codes.

**INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this paper is **75**.
- You will be awarded marks for the quality of your written communication in your answers to the questions in Section B.
- This document consists of **16** pages. Any blank pages are indicated.

**SECTION A**

Answer **all parts** of question 1.

1 (a) (i) Name **two** fat soluble vitamins.

1 .....

2 ..... [2]

(ii) State where the fat soluble vitamins are stored in the body.

..... [1]

(b) (i) State **two** functions of vitamin B1 (Thiamin) in the body.

1 .....

.....

2 .....

..... [2]

(ii) Identify **two** different good sources of vitamin B1.

1 .....

2 ..... [2]

(iii) State the deficiency disease associated with vitamin B1.

..... [1]

(c) (i) Name **one** novel source of protein.

..... [1]

(ii) Explain **two** reasons for the increase in demand for novel sources of protein.

1 .....

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2 .....

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[4]

(d) Market research and consumer testing are two of the costs involved with the development of a new food product.  
Explain **two** other costs involved in the development of a new food product.

1 .....

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2 .....

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[4]

(e) Describe the different stages in a Hazard Analysis and Critical Control Point (HACCP) system.

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[8]

**SECTION B**

Answer **two** questions **only**.

The quality of written communication will be assessed in your answers to the questions in Section B.

- 2 Carbohydrates have important dietary functions.  
Explain the role of carbohydrates in maintaining good health. [25]
- 3 Explain the importance of food labelling and the current approaches to nutritional labelling used by the food industry. [25]
- 4 Discuss the choice and use of dairy products in food preparation and cooking. [25]

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A series of horizontal dotted lines spanning the width of the page, providing a guide for handwriting practice.

A series of horizontal dotted lines spanning the width of the page, providing a template for handwriting practice.

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