

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

Centre number

Candidate number

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]

3

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

- 1
-
-
-
- 2
-
-
-

[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
-
-
-
- 2
-
-
-

[4]

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

[8]

5

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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