OCR
RECOGNISING ACHIEVEMENT

Tuesday 17 January 2012 – Morning

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.

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Section A

Answer **all** questions.

1 **(a)** **(i)** Name **two** nutrients which provide energy.

1. .....

2. ..... **[2]**

(ii) Define the term energy balance.

.....

..... **[1]**

(iii) Explain **three** different dietary changes an individual can make to reduce their energy intake.

1. .....

.....

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2. .....

.....

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3. .....

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..... **[6]**

(b) **(i)** State **two** functions of folic acid in the body.

1. .....

.....

2. .....

..... **[2]**

(ii) State **two** good food sources of folic acid.

1. .....

2. ..... **[2]**

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(c) **(i)** Identify the **two** sources of essential fatty acids.

1. .....

.....

2. .....

..... **[2]**

(ii) State **one** function of essential fatty acids in the body.

..... **[1]**

(d) **(i)** Give **two** advantages of metal as a packaging material for food manufacturers.

1. .....

.....

.....

2. .....

.....

..... **[2]**

(ii) Give **one** disadvantage of metal as a packaging material for food manufacturers.

.....

..... **[1]**

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(e) Consumer concern about environmental issues is changing the food industry.
Explain ways in which food manufacturers are responding to these concerns.

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..... **[6]**

Section A Total 25 marks

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Section B

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

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

2. Explain the role of mineral elements in maintaining good health. **[25]**

3. Explain the role and function of food additives in the food industry. **[25]**

4. Discuss the choice and use of fats and oils in food preparation and cooking. **[25]**

Section B Total 50 marks

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