

OXFORD CAMBRIDGE AND RSA EXAMINATIONS
A2 GCE

G004/01

HOME ECONOMICS

Food, Nutrition and Health

Nutrition and Food Production

THURSDAY 20 JUNE 2013: Afternoon

DURATION: 1 hour 30 minutes
plus your additional time allowance

MODIFIED ENLARGED

Candidate forename		Candidate surname	
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Centre number						Candidate number				
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Candidates answer on the Question Paper.

OCR SUPPLIED MATERIALS:

None

OTHER MATERIALS REQUIRED:

None

READ INSTRUCTIONS OVERLEAF

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes on the first page. 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.

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.
- Any blank pages are indicated.

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SECTION A

Answer ALL PARTS of question 1.

- 1 (a) (i) State TWO different good sources of dietary calcium.**

1 _____

2 _____

[2]

- (ii) Give THREE functions of calcium in the body.**

1 _____

2 _____

3 _____

[3]

(b) (i) Name ONE good food source of vitamin B12.

_____ **[1]**

(ii) Identify ONE group who may suffer a deficiency of vitamin B12.

_____ **[1]**

(iii) State TWO effects of a lack of vitamin B12 on the body.

1 _____

2 _____

_____ **[2]**

(c) Explain the function of each of the following food additives in food production.

(i) Emulsifiers

_____ [2]

(ii) Nutritional additives

_____ [2]

(iii) Antioxidants

_____ [2]

(d) Explain TWO behaviour changes that will occur during the baking of a cake.

1 _____

2 _____

[4]

[6]

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 nutritional value, choice and use of fruit and vegetables in food preparation and cooking. [25]**

- 3 Different packaging materials are used by the food industry.
Explain the benefits and limitations of the different packaging materials for the manufacturer, retailer and consumer. [25]**

- 4 Explain how to meet the dietary and nutritional needs of adolescents and adults. [25]**

[illegible]

[illegible]

[illegible]

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