

**Tuesday 21 June 2016 – 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 all parts of 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**.
- Quality of Written Communication will be assessed 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) State **one** good vegetable source of vitamin C.  
..... [1]
- (ii) Identify **two** different dietary functions of vitamin C.  
1 .....  
2 ..... [2]
- (iii) Explain **two** ways vitamin C can be retained during the cooking of vegetables.  
1 .....  
.....  
.....  
2 .....  
.....  
..... [4]
- (iv) Explain the process of enzymic browning in fruit and vegetables.  
.....  
.....  
..... [2]
- (b) (i) State **one** good source of vitamin K.  
..... [1]
- (ii) Identify **one** dietary function of vitamin K.  
.....  
..... [1]
- (c) (i) Explain **one** disadvantage to the consumer of sugar substitutes.  
.....  
.....  
..... [2]

(ii) Explain the difference between intrinsic and extrinsic sugars.

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

(d) (i) Describe **two** advantages to a consumer of the use of plastic as a packaging material.

1 .....

.....

.....

.....

.....

.....

.....

.....

..... [4]

(ii) Describe **one** disadvantage to a food retailer of using plastic as a packaging material.

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

(e) (i) Many types of sensory tests are used in food production.

Describe **one** difference test used in food production.

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

(ii) Describe **one** grading test used in food production.

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

**SECTION B**

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

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

- 2 Discuss how the nutritional value, choice and use of proteins and alternative protein sources can contribute to maintaining good health. **[25]**
- 3 Discuss the processes involved in the marketing and launch of a new food product. **[25]**
- 4 Discuss the nutritional and dietary needs during adolescence and compare how they differ between adolescent males and adolescent females. **[25]**

Write the number of each question answered.

Lined area with a vertical margin line on the left and horizontal dotted lines for writing.

A grid for data recording consisting of 26 horizontal rows. Each row is bounded by a solid vertical line on the left and a dotted horizontal line on the right. The rows are empty and intended for handwritten entries.

A large rectangular area for writing, bounded by a solid vertical line on the left and horizontal dotted lines on the top, bottom, and right.





A large rectangular area for writing, bounded by a solid vertical line on the left and horizontal dotted lines on the top, bottom, and right.



A large area of the page is filled with horizontal dotted lines, providing a space for writing. A solid vertical line runs down the left side of this area, approximately one-tenth of the way from the left edge, creating a margin.



A large rectangular area for writing, bounded by a solid vertical line on the left and horizontal dotted lines on the top, bottom, and right.



A large writing area consisting of 25 horizontal dotted lines. A solid vertical line is positioned on the left side, approximately one-tenth of the way across the page, creating a narrow margin for writing.

A large area of the page is reserved for writing, featuring a vertical solid line on the left side and horizontal dotted lines extending across the page.

**END OF QUESTION PAPER**



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