

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Education  
Advanced Subsidiary Examination  
June 2013

# Design and Technology: FOOD1 Food Technology

## Unit 1 Materials, Components and Application

Tuesday 14 May 2013 9.00 am to 11.00 am

**For this paper you must have:**

- normal writing and drawing instruments.

**Time allowed**

- 2 hours

**Instructions**

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions in Section A.
- Answer **one** question from Section B, **either** Question 9 **or** Question 10.
- Answer the question in Section C.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

**Information**

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- There are 20 marks for Section A, 20 marks for Section B and 40 marks for Section C.

**Advice**

- Illustrate your answers with sketches and/or diagrams wherever you feel it is appropriate.
- You are advised to spend approximately 30 minutes on Section A, 30 minutes on Section B and one hour on Section C.

For Examiner's Use	
Examiner's Initials	
Question	Mark
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11	
TOTAL	



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**Section A**

Answer **all** questions in this section.

**1** Name **two** food sources of calcium.

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(2 marks)

<b>2</b>

**2** Explain the difference between fats and oils.

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(2 marks)

<b>2</b>

**3** Name **two** fat soluble vitamins.

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(2 marks)

<b>2</b>

**4** Name **two** factors affecting the energy requirements of an individual.

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(2 marks)

<b>2</b>



5 Name **two** minerals required by the body and give a food source for each.

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(4 marks)

4

6 Name **two** diet related causes of obesity.

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(2 marks)

2

7 Name **two** specific food sources of vitamin C.

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(2 marks)

2

Turn over ▶



**8** Explain, with an example of each, the function of artificial sweeteners and colouring agents.

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(4 marks)

<b>4</b>



**Turn over for the next question**

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ANSWER IN THE SPACES PROVIDED**

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**Section B**

Answer **either** Question 9 **or** Question 10.

**9 (a)** Discuss the influence of food allergies and intolerances on food choice.

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(10 marks)

<b>20</b>

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**Section C**

Answer all parts of Question 11.

- 11 (a)** Describe how a range of multicultural snack products could be developed to:
- increase the non-starch polysaccharide content (5 marks)
  - increase water-soluble vitamin content (5 marks)
  - reduce saturated fat content (5 marks)
  - increase flavour. (5 marks)

You may use annotated sketches to illustrate your answer.



**Question 11 continues on the next page**

**Turn over ▶**



**11 (b)**

Foods may be considered to be in 'high', 'medium' and 'low' risk food categories. Explain, with specific examples from each category, the factors affecting bacterial growth.

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(10 marks)







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