

Candidate Forename						Candidate Surname					
Centre Number						Candidate Number					

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS  
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

**1954/02**

**DESIGN AND TECHNOLOGY**

**Food Technology**

**Full Course**

**Paper 2 (Higher Tier)**

**FRIDAY 11 JUNE 2010: Afternoon**

**DURATION: 1 hour 15 minutes**

**SUITABLE FOR VISUALLY IMPAIRED CANDIDATES**

**Candidates answer on the Question Paper**

**OCR SUPPLIED MATERIALS:**

**None**

**OTHER MATERIALS REQUIRED:**

**None**

**READ INSTRUCTIONS OVERLEAF**

## **INSTRUCTIONS TO CANDIDATES**

- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes on the first page.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer ALL the questions.
- 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).

## **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 50.
- The marks allocated and the spaces provided for your answers are a good indication of the length of answers required.

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1 Fig. 1 shows savoury flans.

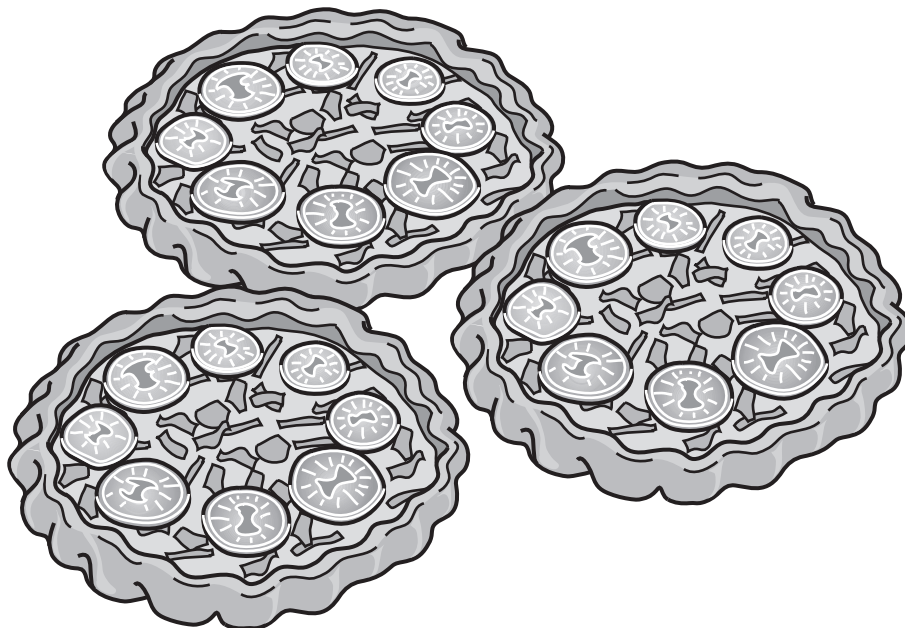


Fig. 1

(a) Give TWO reasons why the manufacturer of the savoury flans would invest in CAM (computer aided manufacture) equipment.

Reason 1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [1]

Reason 2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [1]

**(b) State TWO control checks that are carried out during the production of savoury flans.**

**1** \_\_\_\_\_  
\_\_\_\_\_ [1]

**2** \_\_\_\_\_  
\_\_\_\_\_ [1]

**(c) Give TWO ways the manufacturer can ensure a safe shelf life for the savoury flan.**

**1** \_\_\_\_\_  
\_\_\_\_\_ [1]

**2** \_\_\_\_\_  
\_\_\_\_\_ [1]

- (d) During the development and production of the savoury flans some tasks are carried out by people rather than machines.**

**Complete the chart below to show TWO tasks and the reason why they are carried out by people.**

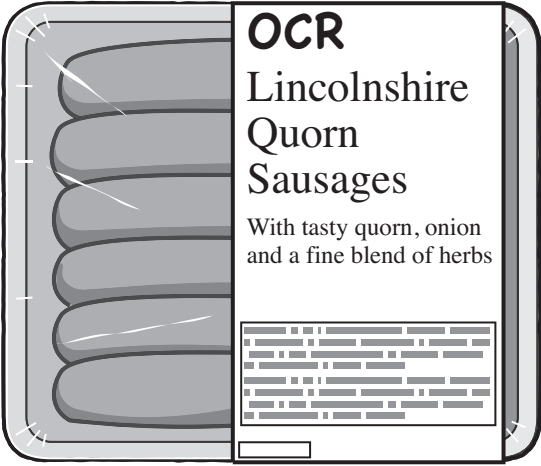
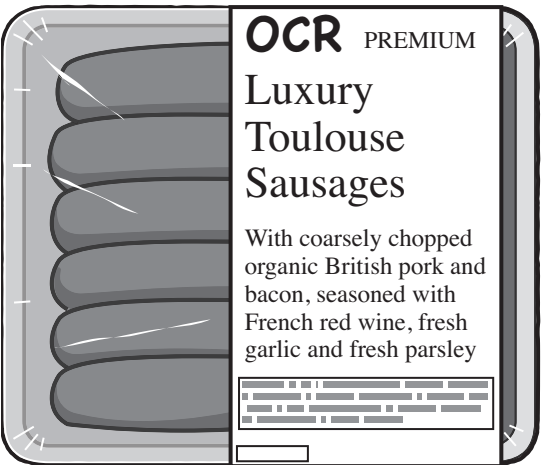
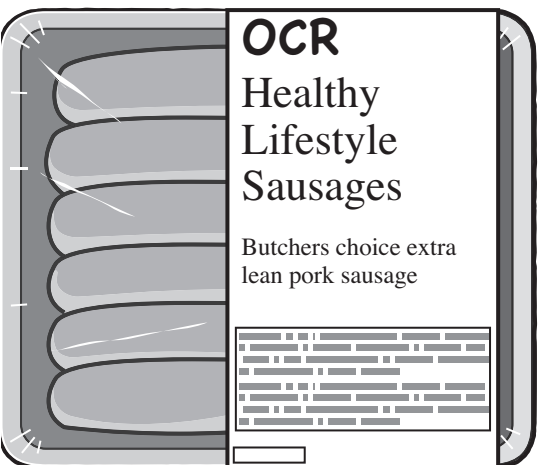
TASK	REASON
<hr/> <hr/> [1]	<hr/> <hr/> <hr/> <hr/>  [1]
<hr/> <hr/> [1]	<hr/> <hr/> <hr/> <hr/>  [1]

**[Total: 10]**

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**TURN OVER FOR QUESTION 2**

**2 Fig. 2 shows information about three different types of sausages.**

 <p>The image shows a rectangular package of OCR Lincolnshire Quorn Sausages. The left side of the package features a clear window displaying five grey, oval-shaped sausages. The right side is a white label with the OCR logo at the top, followed by the product name 'Lincolnshire Quorn Sausages' and a description: 'With tasty quorn, onion and a fine blend of herbs'. At the bottom of the label is a small rectangular area with horizontal lines, likely for a barcode or price tag.</p>	<p><b><u>OCR LINCOLNSHIRE QUORN SAUSAGES</u></b></p> <p><b>With tasty quorn, onion and a fine blend of herbs</b></p>
 <p>The image shows a rectangular package of OCR Premium Luxury Toulouse Sausages. The left side of the package features a clear window displaying five dark grey, oval-shaped sausages. The right side is a white label with the OCR logo at the top, followed by 'PREMIUM' in smaller text, then the product name 'Luxury Toulouse Sausages' and a description: 'With coarsely chopped organic British pork and bacon, seasoned with French red wine, fresh garlic and fresh parsley'. At the bottom of the label is a small rectangular area with horizontal lines.</p>	<p><b><u>OCR LUXURY TOULOUSE SAUSAGES</u></b></p> <p><b>With coarsely chopped organic British pork and bacon, seasoned with French red wine, fresh garlic and fresh parsley</b></p>
 <p>The image shows a rectangular package of OCR Healthy Lifestyle Sausages. The left side of the package features a clear window displaying five light grey, oval-shaped sausages. The right side is a white label with the OCR logo at the top, followed by the product name 'Healthy Lifestyle Sausages' and a description: 'Butchers choice extra lean pork sausage'. At the bottom of the label is a small rectangular area with horizontal lines.</p>	<p><b><u>OCR HEALTHY LIFESTYLE SAUSAGES</u></b></p> <p><b>Butchers choice extra lean pork sausages</b></p>

**Fig. 2**



- (a) The sale of sausages continues to rise.  
Give ONE reason for this.

\_\_\_\_\_

\_\_\_\_\_ [1]

- (b) Complete the chart below to state the target group and the reason why it is suitable.

PRODUCT	TARGET GROUP	REASON
OCR Lincolnshire Quorn Sausage	_____	_____ _____
OCR Healthy Lifestyle Sausages	_____	_____ _____

[4]

- (c) Nutritional information is shown on sausage packaging.  
Give TWO benefits to the consumer of having nutritional information.

Benefit 1 \_\_\_\_\_

\_\_\_\_\_ [1]

Benefit 2 \_\_\_\_\_

\_\_\_\_\_ [1]

- (d) OCR Toulouse Sausages are the most expensive.  
Give ONE reason why these cost more than the  
other sausages.**

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[1]

- (e) OCR Lincolnshire Quorn Sausages contain  
modified maize starch.  
State a function of modified maize starch in food  
products.**

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[1]

- (f) OCR Healthy Lifestyle Sausages contain an  
antioxidant.  
State a function of antioxidants in food products.**

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[1]

**[Total: 10]**

3 Fig. 3 shows the ingredients in a cake.

**INGREDIENTS:**

Eggs, whole, raw

Butter

Sugar, caster

Flour, white, self-raising

Cocoa powder



**Cake mixture**

Sugar, icing

Butter

Cocoa powder

Chocolate, plain



**Icing**

**Fig. 3**

(a) Describe ONE different function for each of the following ingredients in the cake mixture.

(i) Self-raising flour \_\_\_\_\_

\_\_\_\_\_ [1]

(ii) Butter \_\_\_\_\_

\_\_\_\_\_ [1]

(iii) Eggs \_\_\_\_\_

\_\_\_\_\_ [1]

- (b) The manufacturer wants to change the nutritional profile of the cake.**

**Describe how the manufacturer could:**

**Reduce the saturated fat content** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_ **[1]**

**Reduce the sugar content** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_ **[1]**

**Increase the fibre content** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_ **[1]**

- (c) The cake is going to be decorated using pre-manufactured standard components.**

**State TWO advantages to the manufacturer of using pre-manufactured standard components.**

**Advantage 1** \_\_\_\_\_  
\_\_\_\_\_ **[1]**

**Advantage 2** \_\_\_\_\_  
\_\_\_\_\_ **[1]**

**(d) The manufacturer has used additives in the production of the cake.**

**Explain why consumers may be concerned about the use of additives.**

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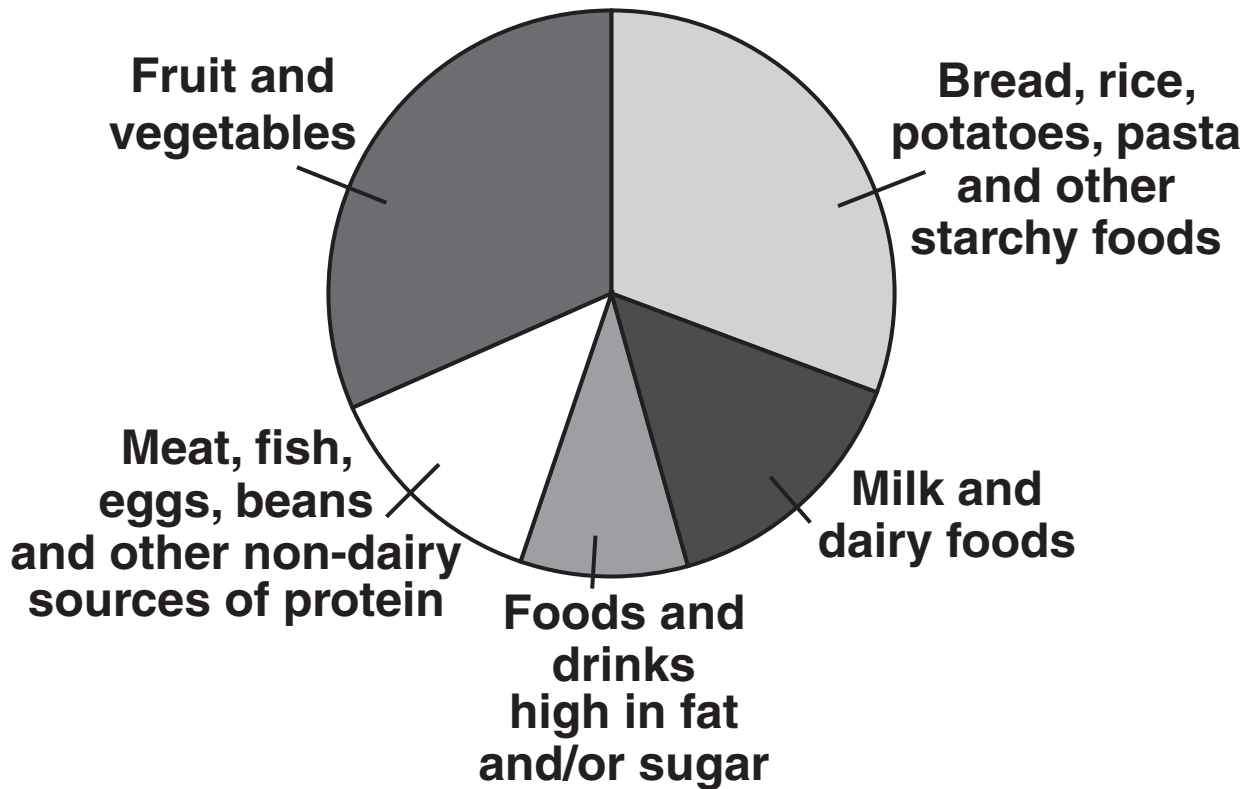
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**[2]**

**[Total: 10]**

4 Fig. 4 shows the eatwell plate.

### THE EATWELL PLATE



**Fig. 4**

**(a) Explain why people are encouraged to use the eatwell plate as a model for planning their diet.**

1 \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

[2]

2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**(b) Explain how food manufacturers are helping to promote healthy lifestyles.**

1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

2 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**(c) Explain why vitamin C is easily lost during the preparation and cooking of vegetables.**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**[Total: 10]**

- 5 (a) Food manufacturers must ensure foods are safe to eat. They use many processes to extend the shelf life of foods.

Explain TWO of these processes

Process \_\_\_\_\_

Explanation \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [2]

Process \_\_\_\_\_

Explanation \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [2]



[6]

**[Total: 10]**

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