OXFORD CAMBRIDGE AND RSA EXAMINATION	DNS
General Certificate of Secondary Education	

**D&T: FOOD TECHNOLOGY** 

PAPER 4 (HIGHER TIER)

Friday

23 JUNE 2006

Afternoon

1 hour 15 minutes

1954/4

Candidates answer on the question paper No additional materials are required.

Candidate Name			
Centre Number		Candidate Number	

**TIME** 1 hour 15 minutes

# INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers in the spaces provided on the question paper.
- Do not write in the bar code. Do not write in the grey area between the pages.

**DO NOT** WRITE IN THE AREA **OUTSIDE** THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL NOT BE MARKED.

# INFORMATION FOR CANDIDATES

- The number of marks available is given in brackets [] at the end of each question or part question.
- The marks allocated and the spaces provided for your answers are a good indication of the length of answers required.
- The total number of marks for this paper is **50**.
- Question 2, Product Analysis, is based on the theme vegetarian products.

FOR EXAMINER'S USE
Q1
Q2
Q3
Q4
Q5
TOTAL

Most food products can be made by batch production. 1

Fig. 1 shows an example of a batch production.

	A diagram has been removed due to third party copyright restriction	ons
	Details:	
	A diagram of batch production at a food factory	
Stat	Fig. 1 te two benefits to the manufacturer of batch production.	
1		[1]
2		[1]
Ove	en chips are a food product which can be manufactured using continuous flow.	
(i)	State one advantage of continuous flow to the manufacturer.	
(i)		[1]
		[1]
	State one advantage of continuous flow to the manufacturer.	[4]
(ii)	State one advantage of continuous flow to the manufacturer	
(ii) Sen	State one advantage of continuous flow to the manufacturer. State one disadvantage of continuous flow to the manufacturer.	
(ii) Sen Stat	State one advantage of continuous flow to the manufacturer	

(d) Explain how CAD has improved the quality of packaging.
[2]
(e) State two ways a new product could be promoted.
1 \_\_\_\_\_\_\_\_\_\_[1]
2 \_\_\_\_\_\_\_\_\_[1]
[Total: 10]

### 3

2 The list below shows the ingredients for a cheese, bacon and onion pasty.

#### Pastry

- wheat flour
- vegetable margarine
- lard
- water
- salt

#### Filling

- onion
- cheese
- bacon

### Sauce

- milk
- wheat flour
- vegetable margarine
- pepper
- salt

(a) Name one ingredient in the pasty that would make it unsuitable for a lacto-vegetarian.

(b) The manufacturer wants to change the filling of the pasty to meet the following specification:

\_[1]

To be suitable for a vegan		To contain a good source of protein
(	Design Specification fo a Pasty	or

Suggest three suitable ingredients for a pasty filling which would meet the specification.

1	[1]
2	[1]
3	[1]

- (c) State two ways packaging would indicate whether the contents are suitable for vegetarians.
  - 1 \_\_\_\_\_[1] 2 \_\_\_\_\_[1]
- (d) Explain why people become vegetarian.

\_\_\_\_\_[4]

[Total: 10]

3	A manufacturer war	ts to produce	Italian style bread	for the summer.
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The ingredients to be used for each loaf are:

- 250 g strong plain flour
- 5 g dried yeast
- 140 ml water
- 15 ml olive oil
- 10 g olives
- 1 g salt
- (a) Complete the table below giving the function of each ingredient.

Ingredient	Function of the ingredient
Yeast	
Oil	
Water	

(b) State one suitable ingredient to use, instead of olives in an Italian style bread.

		_[1]
(c)	The bread will be packaged in plastic.	
	Give <b>two</b> benefits of using this material.	
	Benefit 1	_[1]
	Benefit 2	_[1]

[3]

(d) The transportation of food products is an important issue.

Explain two issues that must be considered when transporting food products.

Issue 1 \_\_\_\_\_ [2] Issue 2 \_\_\_\_\_ \_\_\_\_[2] [Total: 10]

(b)	Additives are widely used in food products.
	(i) Explain why a manufacturer might use additives in food products.
	(ii) Explain why a consumer might avoid additives in food products.
(c)	Explain <b>one</b> moral <b>or</b> social issue a food manufacturer might need to consider wh designing and making food products.

[Total: 10]

- **5** Government guidelines aim to encourage people to eat more fruit and vegetables.
  - (a) Explain the health benefits of eating fruit and vegetables.

[3] (b) Explain why canning is a popular method of preserving fruit and vegetables. \_\_\_\_[3] (c) Genetically engineered foods have become a controversial issue in recent years. Explain the term genetically engineered foods, using examples.

\_[4]

[Total: 10]

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