

# OXFORD CAMBRIDGE AND RSA EXAMINATIONS General Certificate of Secondary Education

**D&T: FOOD TECHNOLOGY** 

1954/3

PAPER 3 (FOUNDATION TIER)

Friday **24 JUNE 2005** 

Afternoon

1 hour

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

#### TIME 1 hour

#### **INSTRUCTIONS TO CANDIDATES**

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided on the question paper.

#### **INFORMATION FOR CANDIDATES**

The number of marks 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 5, Product Analysis, is based on the theme cook-chill/microwave meals.

FOR EXAMINER'S USE				
Q1				
Q2				
Q3				
Q4				
Q5				
TOTAL				

- Most food is packaged. 1
  - (a) Fig. 1 shows that ready-made soup is packaged using different materials.

An image has been removed due to third party copyright restrictions Details: An image of a plastic bottle, a metal tin and a paperboard carton plastic metal

paperboard

Fig. 1

Complete the table below to show one different advantage of each material.

Material	Advantage
plastic	
metal	
paperboard	

			[1]
2			
			[1]
Com	plete the tabl	e below to show one different method of page	ckaging for each produ
The f	first one has b	een done for you.	
	Product	Pa ck aging	
yog	gurt	Plastic pot	
egg	gs		
ora	nges		
frui	it juice		
Name	e the followir	g symbols found on packaging.	
4		e has been removed nird party copyright	
(i)		n image of a barcode	[1]

1954/3 Jun05 [Turn over

- 2 Sauces can be used to make food products more interesting.
  - (a) The ingredients for a savoury white sauce are shown below.

250 ml milk 25 g margarine 25 g plain flour Salt and pepper

(i)	State	one	reason	why	flour	is	used	in	this	sauce.
-----	-------	-----	--------	-----	-------	----	------	----	------	--------

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

(ii) Give one reason why salt and pepper are added to the sauce.

[1]

(iii) State two ingredients that could be added to this savoury sauce to add colour.

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

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

(b) Sauces can be bought ready to use in a variety of food products as shown in Fig. 2.



Fig. 2

(i)	State	two	products	that	could	be	made	using	a	tomato	based	sauce.
-----	-------	-----	----------	------	-------	----	------	-------	---	--------	-------	--------

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

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

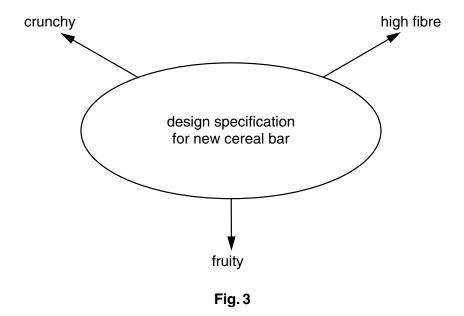
	(ii)	Give <b>three</b> advantages of using a ready-made sauce.		
		1	[1]	
		2	[1]	
		3	[1]	
(c)	Stat	e where a ready-made sauce should be stored once opened.		
			[1]	
			[Total: 10]	

A food manufacturer wants to develop a range of cereal bars.

3

The	e first stage in the development is market research.	
(a)	State <b>two</b> methods of carrying out market research.	
	1	[1]
	2	[1]
(b)	Give <b>two</b> reasons for carrying out market research.	
	1	
		[1]
	2	
		[1]
(c)	State <b>two</b> ways of recording the results of market research.	
	1	[1]
	2	[1]
Cer	real bars are becoming increasingly popular.	
(d)	Give <b>one</b> reason for this increase.	
		[1]

(e) Fig. 3 shows a design specification for a new cereal bar.



In the space below sketch a new idea for a cereal bar.

Name **one** suitable ingredient for each specification point.

[3]

[Total: 10]

(a)	(i)		e letters HACCP stand for.
	<i>(</i> )		LIACOD is considerable for all industries
	(ii)	-	S HACCP is used in the food industry.
(b)			tomated manufacture (CAM) are used to control processes du ood products, for example chocolate biscuits.
	Cor	nplete the table	below to show <b>one</b> different reason for using CAM in each proc
		•	·
		Process	Manufacture of chocolate covered biscuits  Reason for using CAM
	10		neason for using CAW
	VV	/eighing	
	Ва	aking	
	C	oating	
(c)	Maı	nufacturers nee	d to ensure that biscuits are a consistent size and shape.
		e <b>two</b> methods cuits.	that a manufacturer could use to ensure consistency when sha
	۷		

- (d) Fig. 4 shows two sliced fruit loaves.
  - Fig. 4 (a) shows a perfect loaf.
  - Fig. 4 (b) shows a loaf with several faults.

(a)

(b)



An image has been removed due to third party copyright restrictions

Details: An image of a small fruit loaf with fruit only at the bottom of the loaf

Fig. 4

Identify two faults in the loaf shown in Fig. 4 (b) that makes it unsuitable for sale.

[Total: 10]

1954/3 Jun05 [Turn over

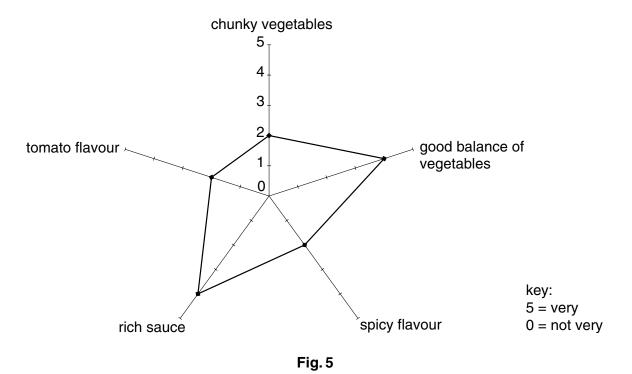
**5** A test kitchen is trialling a new cook-chill microwave product.

The ingredients for the new product are shown below.

## **Spicy Potato Curry**

450 g potatoes, peeled and diced
I onion, peeled and chopped
2–3 tablespoons vegetable oil
2 teaspoons curry powder
400 g tinned tomatoes
100 g green peas
1 green pepper, sliced
200 ml water

Fig. 5 shows the results of a sensory test.



(a) Using the ingredients list and star profile complete the table below:

Area for improvement	How to improve
Chunky vegetables	
Spicy flavour	
Tomato flavour	

(b)	Sensory analysis tests are used to obtain information about a product.
	State <b>two</b> ways a food manufacturer could use this information when developing a product.
	1[1]
	2[1]
(c)	The manufacturer needs to give serving suggestions for the new curry product.
	Name <b>one</b> suitable serving suggestion.
	[1]
(d)	Give three benefits to the consumer of cook-chill products.
	1[1]
	2[1]
	3[1]
(e)	State the method of heat transfer when microwaving a ready-meal.
	[1]
	[Total: 10]

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