

### Oxford Cambridge and RSA Examinations

**General Certificate of Secondary Education** 

## **DESIGN AND TECHNOLOGY (FOOD TECHNOLOGY)**

PAPER 3 FOUNDATION TIER

1954/3

#### Specimen Paper 2003

Additional materials: None Candidates answer on the question paper.

TIME 1 hour

Candidate Name	Centre Number	Candidate Number

#### **INSTRUCTIONS TO CANDIDATES**

- Write your name in the space above.
- Write your Centre number and Candidate number in the boxes above.
- Answer all the questions.
- Write your answers, in blue or black ink, in the spaces provided on the question paper.
- Read each question carefully and make sure you know what you have to do before starting your answer.

#### **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.
- You will be awarded marks for the quality of written communication where an answer requires a piece of extended writing.

Question number	For examiner's use only
1	
2	
3	
4	
5	
TOTAL	

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1.



The balance of good food

_	overnment recommendation is that we should try to include more fruit and ables in our diet.
Sive <b>t</b>	wo reasons why we should eat more fruit and vegetables.
2	
Vhy is	s it important to eat a variety of fruit and vegetables?
Nhy i	s it important to eat a variety of fruit and vegetables?
Why i	
The ra	
The ra	ange of different fruits and vegetables on sale in supermarkets has

[Question 1 continued on the next page]

1.	(d)	The Government is trying to encourage us all to eat at least five portions of fruit and vegetables a day. Using each of the headings below suggest how you could meet this target in one day.
		and a magnetic start,

Breakfast	 	
Mid-morning snack	 	
Packed lunch		
Drink		
Evening meal		

**Total [10]** 

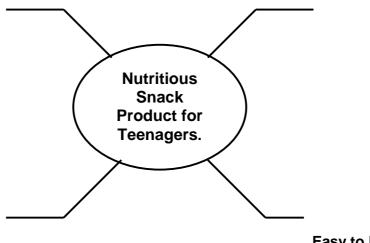
[5]

- **2.** A food manufacturer wants to develop a nutritious snack, which would appeal to teenagers.
  - (a) (i) Give two methods of market research.

 [1]
 [1]

(b) A spider diagram is drawn to identify the specification for this product.

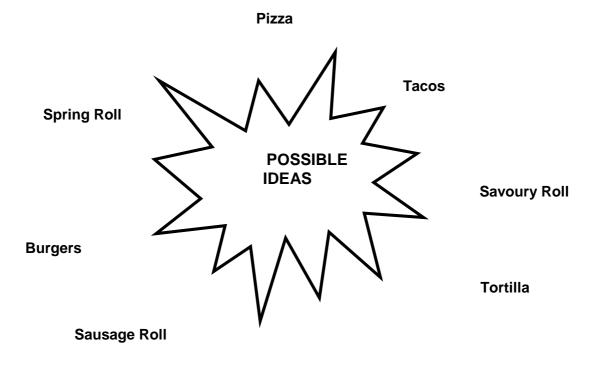
Complete the spider diagram.



Easy to Package

[3]

(c) After analysis of the market research a general specification is produced. The following existing products are identified as possible ideas for the product.

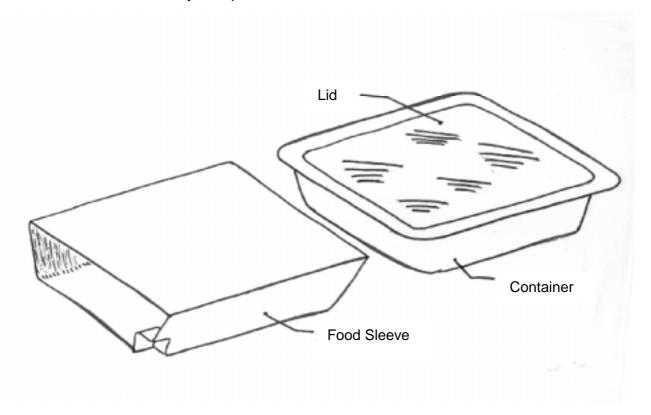


**Individual Pie** 

i)	Give <b>two</b> further ideas for suitable products.
ii)	List <b>three</b> stages that would be carried out before the final idea is chosen.
1	
2	
3	

Total [10]

**3.** Ready meals are now very popular. The packaging enables them to be readily identified and easily transported.



(a) Draw the symbol to show that the packaging is recyclable.

[1]

# Question 3 continued

Part of Package	Material	Property of Material Chosen
Lid	Transparent plastic film	
Container		Flexibility, microwavable, Moisture proof.
Food sleeve		
ii) Suggest two p	products that could be p	ackaged in this way.

(	Give <b>three</b> reasons why this is necessary.
	A HACCP (Hazard Analysis and Critical Control Point) system is set up to ensure product safety.
	List <b>three</b> HACCP checks that would be carried out during the production of the frozen Lasagne.
	Computer control is used by the manufacturer to ensure quality of the frozen lasagne.
	List <b>four</b> ways that computer systems can assist the manufacturer in this process.
•	
	Tot

4.

Name a piece of <b>electrical</b> equipment that the company could use to prepare fresh vegetables.
Give <b>two</b> benefits to the catering company of using this equipment.
As a Food Technologist, you have been asked to extend the range of healthy food products.  Choose <b>two</b> products, <b>one</b> of which must be a drink. For each product give the
name of a machine most likely to be used in its' manufacture.  New Product
Machine
New Drink
Machine
The profitability of the company will be affected if electrical equipment is misuse Give an example of misuse and explain the implications to the company.

A snackfood company currently uses hand tools to prepare food for its' 'Healthy Snack'

5.



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PAPER 3

FOUNDATION TIER

MARK SCHEME

Specimen Paper 2003

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Question	Answer	Total Marks Available
1(a)	Two from:	
	Medical evidence that the risk of certain disease is reduced.	
	Add texture and a variety of flavours.	
	Good source of NSP.	
	Good source of vitamins, minerals and carbohydrates.	2
(b)	To obtain a variety of vitamins and minerals.	1
(c)	Exposure to different fruit and vegetables from travel.	
	Public demand for a healthier diet.	2
(d)	Any suitable answers such as:	
	Breakfast: Prunes / beans on toast / fresh fruit salad / grapefruit/ orange juice	
	Mid-morning snack: Apple/banana	
	Packed Lunch: Celery sticks / grapes/ salad sandwich / tomatoes/ jacket potato / vegetable soup	
	Drink: Orange juice / apple juice/ carrot juice	
	<b>Evening Meal:</b> Dinner with fresh vegetables e.g.: peas, cauliflower, broccoli.	5
		Total 10

Ques	stion	Answer	Total Marks Available
		Two From:	
2(a)		Questionnaires, surveys, looking at exisiting products, secondary research e.g.: looking at reports on social trends.	2 x 1
(b)		Choose from:	
		Easy to eat, high in fibre, low in fat, nutritional information, cost and value for money, green issues, appealing to the teenage market e.g.: trendy.	3
(c)	(i)	Pasty, vegetable curry, vegetable stir fry, quorn pasty/pie.	2
	(ii)	Product tested and trialled e.g.: to see if it can be made in a factory.	
		Sourcing ingredients e.g.: where to buy them from	
		Sensory Analysis e.g.: taste and appearance	
		Packaging	3
		1	Total 10

Question		Answer	Total Marks Available
3(a)		<b>©</b>	1
(b)		Descending order by weight	1
(c)	(i)	Lid – Transparent Plastic Film – Stops liquid leakage/Protects from dust and contamination.	
		Container – Rigid Foil – Flexibility, microwavable  Oven proof card – Moisture Proof	
		<b>Food sleeve</b> – Wax coated card – Freezable/Protects it from being crushed / able to put information on packaging.	4
(d)	(ii)	Two from:	
		Fish pie/pasta bake/chicken casserole/vegetable mornay/Indian dishes.	2
		Artwork/Colourful/ Reflects what the product is and what it is aiming at/can be stacked easily if it is a regular shape.	2
			Total 10

Question	Answer	Total Marks Available
4 (a)	To avoid cross contamination/ to stop different flavours/ vegetables and meat cannot cross/ Dry and wet ingredients cannot mix.	3
(b)	Choose From:	
	Check that meat is stored in a refrigerator/ check food handlers for hygiene/ check that equipment has been kept clean/ check work surfaces have been washed and dried/ check ingredients have been stored carefully/ check water quality.	3
(c)	Sensing temperature/ Control conveyor belts/ quantity of ingredients (weighing)/ timing/ information on labels.	4
		Total 10

5	Food processor		1
(a)	Saves time / saves labour costs / uniformity		2 x 1
(b)	Toasted sandwich	Toasted sandwich maker	
	Bread Rolls	Bread Maker	
	Yoghurt	Yoghurt Maker	
	Juice	Juice Extractor	4 x 1
(c)	No guards on electrical machinery – can catch fingers – the implication to the company is that it can be sued.		3
			Total 10

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