Candidate	Centre	Candidate		
Name	Number	Number		
		0		



GCSE

270/02

DESIGN AND TECHNOLOGY
(SHORT COURSE)
FOCUS AREA: FOOD TECHNOLOGY
Higher Tier

A.M. MONDAY, 2 June 2008 1 hour

	Leave Blank
Question 1	
Question 2	
Question 3	
Question 4	
TOTAL MARK	

ADDITIONAL MATERIALS

You will need coloured pencils for this examination.

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 in this booklet. Where the space is not sufficient for your answer, continue the answer at the back of the book, taking care to number the continuation correctly.

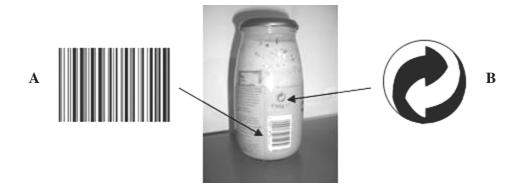
INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

Answer all questions in the spaces provided.

	al eva	luation	Development	Analysis	Design brief	Initial ideas
			Desig	n process stage	S	
	(ii)	State the ideas.	name of the design	n process stage	in which designers	s would improve
(b)	Expl	ain why a d	esigner might evalu	ate existing pro	ducts before design	ing.
(b)						
(c)	(i)	Designers	often make severa reasons why this is	l prototypes or r	nodels before makin	ng the final prod
		Designers Give two	reasons why this is	l prototypes or r		2
		Designers Give two Reason 1:	reasons why this is	l prototypes or r	nodels before makin	

2. (a) Product packaging is usually labelled with information. An example of packaging is shown below.



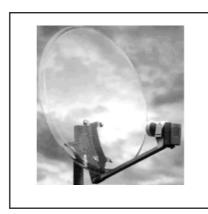
(i)	Symbol A shows a barcode. Give two reasons why a barcode is used on package.	aging. $2 \times [1]$
	Reason 1:	
	Reason 2:	
(ii)	State what symbol B means.	[2]
(iii)	Other than to provide product information, state two functions of packaging.	
	Function 1:	
	Function 2:	
Disc	uss the disadvantages of packaging products.	[3]

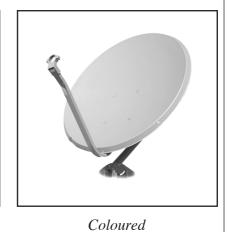
(b)

(270-02) **Turn over.**

3. (a) Satellite dishes are now available in a variety of colours as well as transparent.







Standard black Transparent

Describe **one** positive effect using *transparent* satellite dishes may have on the environment.

[2]

(b) The design of television sets has changed over time. Study the three television sets below.

Television:







Television A

Standard screen TV.

(i)

Television B

• Widescreen TV.

Television C

LCD TV screen.

State **one** *aesthetic* and **one** *functional* change that has been made to the televisions, and then explain how each change has benefited or helped the consumer.

	State one <i>aesthetic</i> change:	
	Explain how this aesthetic change has benefited or helped the consumer:	
(ii)	Television:	
	State one functional change:	
	Explain how this functional change has benefited or helped the consumer:	
	cost of LCD screen televisions has fallen significantly since their introduction. ain two reasons for this.	$2 \times$
Reas	on 1:	
Reas	2	
Reas	on 2:	•••••

(270-02)

- **4.** A manufacturer is planning to develop a 'luxury' chilled dessert.
 - (a) **Sketch, colour** and **label two** *very different* design ideas.

The chilled dessert must:

- be attractive with contrasting flavours and textures;
- be single portion size and hold its own shape when all packaging is removed;
- have three or four layers, including fruit.

Marks will be awarded for:

- (i) the design of an *interesting single portion*, *layered*, *chilled dessert* which holds its own shape and has contrasting flavours and textures; $2 \times [4]$
- (ii) detailed labelling of **all** the specific food materials used to make the dessert; $2 \times [3]$
- (iii) quality of communication, including a **cross-section** and **dimensions** of **each** layer of the product. $2 \times [4]$

Design 1	Do not draw the packaging

Design 2	Do not draw the packaging
	Tick (√) the box to show your best idea. Design 1 Design 2
<i>(b)</i>	State three detailed product specification points to help the manufacturer make your chosen
	idea. Do not repeat those included in the design specification for this question. [3]
	Specification point 1:
	Specification point 2:
	Specification point 3:

For continuation only.	