Candidate	Centre	Candidate	
Name	Number	Number	
		0	



# **GCSE**

138/03

## **DESIGN AND TECHNOLOGY**

PAPER 1

**Higher Tier** 

A.M. MONDAY, 2 June 2008

30 minutes

	Leave Blank
Question 1	
Question 2	
Question 3	
TOTAL MARK	

## 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.

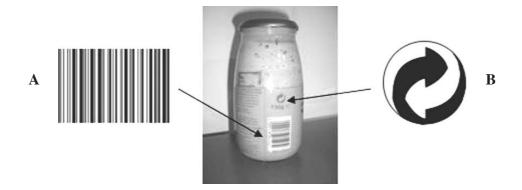
### INFORMATION FOR CANDIDATES

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)	ideas.		n process stage	in which designers	-
(b)	Expl	ain why a c	designer might eval	uate existing pro	oducts before design	ing.
(b) (c)	(i)	Designer Give <b>two</b>	s often make severa	l prototypes or 1	models before maki	ng the final prod
		Designer Give <b>two</b> Reason 1	s often make severa reasons why this is	l prototypes or i		ng the final prod

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

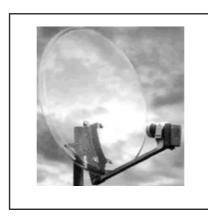


(i)	Symbol A shows a barcode. Give <b>two</b> reasons why a barcode is used on packa	ging. $2 \times [1]$
	Reason 1:	
	Reason 2:	
(ii)	State what symbol <b>B</b> means.	[2]
(iii)	Other than to provide product information, state <b>two</b> functions of packaging.	
(111)	Function 1:	
	Function 2:	
Disc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

*(b)* 

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







Standard black Transparent Coloured

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 A**

Standard screen TV.

### **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.

	(i)	Television:	
		State one aesthetic change:	[1]
		Explain how this <i>aesthetic</i> change has benefited or helped the consumer:	
			[2]
	(ii)	Television:	
		State one functional change:	[1]
		Explain how this <i>functional</i> change has benefited or helped the consumer:	
(c)		cost of LCD screen televisions has fallen significantly since their introduction. ain <b>two</b> reasons for this.	2×[2]
	Reas	son 1:	
	Reas	son 2:	

(138-01) **Turn over.** 

For continuation only.	