Surname			Other	Names			
Centre Number				Candidate Number			
Candidate Signa	ature						

For Examiner's Use	

ASSESSMENT and QUALIFICATIONS ALLIANCE

General Certificate of Secondary Education June 2007

### DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY) (SHORT COURSE) Written Paper Foundation Tier

35	57/F
	F

Wednesday 13 June 2007 1.30 pm to 3.00 pm

#### For this paper you must have:

- a pen, a pencil, a ruler, an eraser, a pencil sharpener and coloured pencils
- an insert for use with Question 2
- an insert for use with Question 5.

Time allowed: 1 hour 30 minutes

#### Instructions

- Use blue or black ink or ball-point pen. Use pencil and coloured pencils only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- Answer the questions in the spaces provided.
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want to be marked.
- Show the working of your calculations.

### Information

- The maximum mark for this paper is 100.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers.

1	For Examiner's Use					
Question	Mark	ark Question				
1	1 5					
2	2 6					
3		7				
4						
Total (Column 1)						
Total (Column 2)>						
TOTAL						
Examine	r's Initials					

#### **Design brief**

You are asked to reuse fabrics, textile products and components to design and make

either a fashion garment or accessory

or a decorative product for the home.

The product must

- use recycled fabrics
- include one added decorative technique
- include one or more components
- be suitable for sale as part of a designer's limited product range.

You are advised to answer the questions in this paper in the order in which they are written.

		Answer all questions in the spaces provided.					
Qu	Question 1 is about research to generate design ideas.						
1	(a)	Describe <b>one</b> way in which designers have used recycled textile materials in their designs.					
	(b)	Explain <b>one</b> problem of using recycled materials to make new textile products.					
	(c)	Some new fashion products are designed to look 'old'.					
		Describe two ways in which new fashion products are made to look 'old'.					
		1					
		2					

Turn over for the next question

Question 2 is about designing your product.

2 (a) You have been asked to show your design ideas.

Use the information given in the design brief on page 2.

(i) Use pencil to draw and label **two** different design ideas for your product.

Marks will be given for

- originality of ideas  $(2 \times 3 \text{ marks})$
- quality of notes and sketches.  $(2 \times 2 \text{ marks})$

Design Idea A

Design Idea B

(5 marks)

(5 marks)

(ii)	Choose one of your design ideas for development.	
	Tick the box to show the design idea you have chosen.	
	Design Idea A Design Idea B	
	Give one reason why your chosen design idea will sell well.	
	(2 marks)	

Question 2 continues on the next page

(b) Use sketches, labelling and notes to present a final design for your product.

You have this page and the next to present your design.

You must show a front **and** a back view.

If you have chosen a fashion garment you may use the body outline shapes on the insert sheet to help you.

Marks will be given for

•	use of	f recy	cled fa	abrics	, texti	le p	oroc	luct	s o	r co	mpc	onent	S	(6 m	arks)
		1.	1	1.	0.1	1			1	1.	.1	1		11	7 \

- originality and quality of the design including the decoration (6 marks)
- use of colour (3 marks)
- presentation of the final idea. (3 marks)

(1 mark)
•••••
(3 marks)
(2 marks)
(2 marks)

Question 4 is about recycling and textiles.

- 4 Using recycled materials can help protect the environment.
  - (a) Explain each statement in the table below.

Pesticides used on cotton plants damage the environment.	
Polyester fabrics are a problem if thrown away in landfill sites.	
Buying components overseas causes environmental damage.	

(3 marks)

- (b) Many textile products are packaged before going to the shops.
  - (i) Give two reasons why products are packaged.

1	
2	
2	(2 marks)

- (ii) Give **two** reasons why some packaging is **not** environmentally friendly.
  - 1 .....
- (iii) The symbol shown below is often found on packaging.

Explain what this symbol means.



.....

.....

(2 marks)

10

Question 5 is about fabric manufacture.

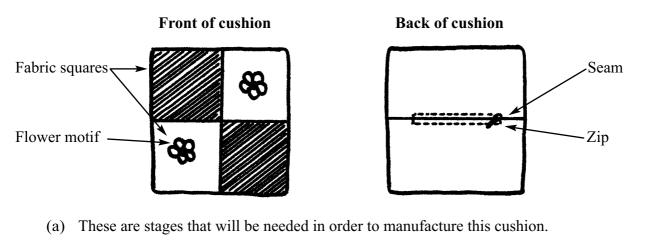
- 5 Study the photograph of the printed fabric shown on the insert sheet.
  - (a) The fabric has been woven.

Label each of the following correctly in the boxes shown below.

weft selvedge warp (3 marks) (b) The design has been printed on to the fabric. (i) Explain two ways a fabric designer uses Computer Aided Design (CAD). 1 ..... 2 ..... ..... (4 marks) (ii) Explain two ways a fabric manufacturer uses Computer Aided Manufacture (CAM). 1 ..... ..... 2 ..... (4 marks) (iii) Give one quality control check that will be needed when printing this fabric. (1 mark)

Question 6 is about industrial production systems.

6 Look at the drawings of the cushion shown below.



join front and back together	sew in zip	join coloured squares together
attach flower motifs	sev	w seam at back of cushion

(i) Complete the chart below to show the order in which the cushion can be put together using the stages in the box above.

The first one has been done for you.

(5 marks)

(ii) Give **one** quality control check that will be needed at each stage.

The first one has been done for you.

(5 marks)

Stage of manufacture	Quality control check
Cut out fabric pieces	Make sure all pieces are cut straight

<ul> <li>(ii) Identify one part of the cushion which could be made on a sub-assembly lin</li> <li>(c) When cutting out fabric for the cushions, many layers will be cut at once using a bandsaw / bandknife.</li> <li>Give two ways manufacturers can make it safer for the workers using the bandsaw / bandknife.</li> <li>1</li></ul>				
<ul> <li>(ii) Identify one part of the cushion which could be made on a sub-assembly lin</li> <li>(c) When cutting out fabric for the cushions, many layers will be cut at once using a bandsaw / bandknife.</li> <li>Give two ways manufacturers can make it safer for the workers using the bandsaw / bandknife.</li> <li>1</li></ul>		made as a <i>sub-assembly</i> .	ome parts of the cushion wil	(b) Son
<ul> <li>(ii) Identify one part of the cushion which could be made on a sub-assembly lin</li> <li>(c) When cutting out fabric for the cushions, many layers will be cut at once using a bandsaw / bandknife.</li> <li>Give two ways manufacturers can make it safer for the workers using the bandsaw / bandknife.</li> <li>1</li></ul>		nbly?	i) What is meant by a sub-a	(i)
<ul> <li>(c) When cutting out fabric for the cushions, many layers will be cut at once using a bandsaw / bandknife.</li> <li>Give two ways manufacturers can make it safer for the workers using the bandsaw / bandknife.</li> <li>1</li></ul>	(1 mar.			
<ul> <li>(c) When cutting out fabric for the cushions, many layers will be cut at once using a bandsaw / bandknife.</li> <li>Give two ways manufacturers can make it safer for the workers using the bandsaw / bandknife.</li> <li>1</li></ul>	ne.	on which could be made on a sub-assembly lin	i) Identify <b>one</b> part of the c	(ii)
bandsaw / bandknife. Give <b>two</b> ways manufacturers can make it safer for the workers using the bandsaw / bandknife. 1 2 (d) The design of the cushion has been changed. The new design is shown below. Front of cushion Back of cushion Back of cushion	(1 mar			
bandsaw / bandknife.  1  2 (2) (d) The design of the cushion has been changed. The new design is shown below.  Front of cushion Back of cushion	a	shions, many layers will be cut at once using a		
<ul> <li>2</li></ul>		make it safer for the workers using the	•	
<ul> <li>(d) The design of the cushion has been changed. The new design is shown below.</li> <li>Front of cushion</li> </ul>				1.
<ul> <li>(d) The design of the cushion has been changed. The new design is shown below.</li> <li>Front of cushion</li> </ul>	(2 mark			2.
	2 mark	``	ne design of the cushion has	(d) The
Flower motif S		<b>Back of cushion</b>	Front of cushion	
<b>8</b> 8	Seam Zip		f So the second	wer motif
Give <b>two</b> ways in which the new cushion will be cheaper to manufacture.		cushion will be cheaper to manufacture.	ve <b>two</b> ways in which the n	Giv
1				1.
2				
(2	(2 mark			2.

(e) Each cushion needs a 50 cm length of fabric to make it.

Fill in the chart below to show the materials needed to make 10 cushions.

Fabric / component	Amount needed
Fabric	
Zips	
Flower motifs	

(3 marks)

(f) A health and safety officer found some problems in a factory.

Explain the dangers for workers of **each** of the problems below.

(i) rubbish piled up near factory exits

(2 marks)

(ii) a cracked electric plug and fraying flex on a sewing machine

-----

(2 marks)

(iii) untrained operators using fork lift trucks in the warehouse

(2 marks)

Turn over for the next question

(4 marks)

14

Question 7 is about fabric used for a cushion.

- 7 (a) The fabric used is made from 100% cotton.
  - (i) Give two detailed reasons why this is a suitable fabric for a cushion.

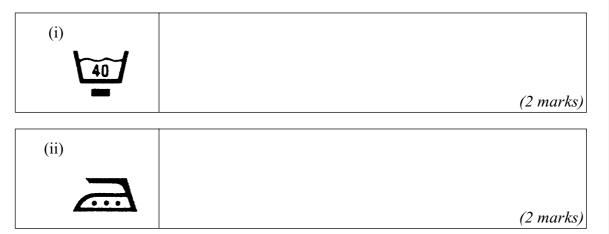
(ii) Name one fabric finish which could make the cotton fabric better for a cushion.

(1 mark)

(iii) Explain one advantage of this fabric finish.

(b) The symbols shown below are on a label attached to a cushion.

Explain the use of **each** symbol on this cushion.



END OF QUESTIONS

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# There are no questions printed on this page

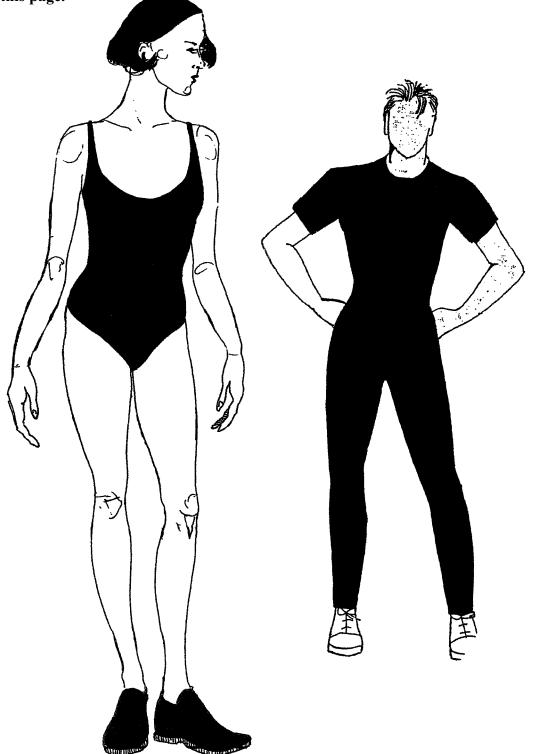
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## DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY) Full and Short Courses



This insert is provided for use with Question 2. It may be used as a guide if you choose to design a fashion garment.

Do not draw on this page.



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## DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY) Full and Short Courses

This insert is provided for use with Question 5.

Photograph of printed fabric.

Photograph of printed fabric showing pink leaf pattern is not reproduced here due to third-party copyright constraints.

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Insert to

