Surname	Other	Names				
Centre Number			Candi	date Number		
Candidate Signature						

For Examiner's Use

General Certificate of Secondary Education June 2007

DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY) Written Paper Foundation Tier





Wednesday 13 June 2007 1.30 pm to 3.30 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: 2 hours

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 125.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers.

For Examiner's Use							
Question	Question	Mark					
1		5					
2	2 6						
3		7					
4							
Total (Co	olumn 1)	-					
Total (Co	olumn 2) –	-					
TOTAL							
Examiner's Initials							

TP/Jun07/3547/F 6/6/6/6/ **3547/F**

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 some added decorative techniques
- 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.

Que	estion	1 is about research to generate design ideas.						
1	(a)	Describe two ways in which designers have used recycled textile materials in their designs.						
		1						
		2						
		(4 marks						
	(b)	Explain two problems of using recycled materials to make new textile products.						
		1						
		2						
	(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						
	(d)	Give two reasons why someone would buy a 'one-off' design.						
		1						
		2						

Turn over for the next question

10

(2 marks)

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 two reasons why your chosen design idea will sell well.
	1
	2
	(4 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 recycled fabrics, textile products or components (6 marks)
 originality and quality of the design including the decoration (8 marks)
 use of colour (3 marks)
- presentation of the final idea. (3 marks)

Que	estion	3 is about the decorative techniques used on your product.
3	(a)	(i) Name one decorative technique you have chosen.
		(1 mark)
		(ii) Explain why you think it is suitable.
		(3 marks)
	(b)	Use notes and diagrams to explain how to work the technique named in part (a).
		Include information about materials and equipment that will be needed.

(6 marks)

Question 4 is about recycling and textiles.

- 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.	
Dyeing fabrics can be bad for the environment.	
	(A manka)

(4 marks)

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

1	

(ii) Give **two** reasons why some packaging is not environmentally friendly.

1	
1	

(iii) The symbol shown below is often found on packaging.

Explain what this symbol means.

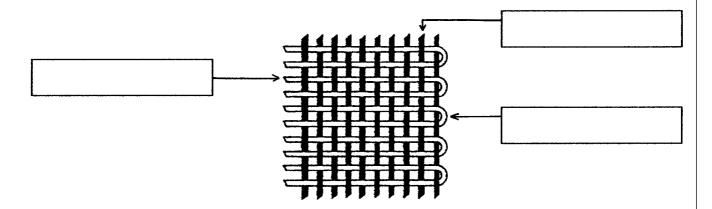


Question 5 is about fabric manufacture.

- 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.

warp weft selvedge



(3 marks)

(b) The design has been printed on to the fabric.

1

						Design	

2	 	 	

(4 marks)

	(::)	David lain	4	···· a Calania			Laki A	Manufacture	
1	111)	Explain	IWO WA	ivs a fabric	manmacmrer	lises Combi	mer Aidea	Manifiacilire (III.AIVIII
٠,	(11)	Lapiani		i j b a rabric	illulluluc tul Cl	abes Comp	acer rinaea	1 1 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a	(C1 11 1 1) ·

1	 	 •••••	

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(4 marks)

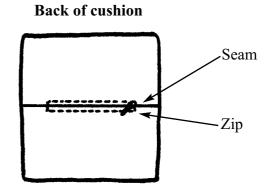
(iii)	Give two quality control checks that will be needed when printing this fabric.
	1
	2
	(2
	Turn over for the next question

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Question 6 is about industrial production systems.

6 Look at the drawings of the cushion shown below.

Fabric squares Flower motif



(a) These are stages that will be needed in order to manufacture this cushion.

join front and back together sew in zip join coloured squares together attach flower motifs sew 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 stage has been done for you.

(5 marks)

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

(6 marks)

Stage of manufacture	Quality control check
Cut out fabric pieces	

(b)	Give two reasons why it is important to carry out quality control checks.
	1
	2
(c)	Some parts of the cushion will be made as a <i>sub-assembly</i> . (2 marks)
	(i) What is meant by a sub-assembly?
	(1 mark)
	(ii) Identify one part of the cushion which could be made on a sub-assembly line.
	(1 mark)
(d)	When cutting out fabric for the cushions, many layers will be cut at once using a bandsaw / bandknife.
	Give two ways manufacturers can make it safer for the workers using the bandsaw / bandknife.
	1
	2

Question 6 continues on the next page

(e) The design of the cushion has been changed. The new design is shown below.

Front of cushion **Back of cushion** Seam Flower motif `Zip (i) Give **two** ways in which the new cushion will be cheaper to manufacture. (2 marks) (ii) The size and shape of the new cushion is the same as that of the old cushion. Give two explanations of how this would help in the manufacture of the new cushion. 1 (4 marks) 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. (3 marks)

Fabric / component	Amount needed
Fabric	
Zips	
Flower motifs	

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(g)	(i)	Give two reasons why it is important to have a good stock control system.
		1
		2
	(ii)	Explain how ICT (Information Communication Technology) can help with stock control in a factory.
		(4 marks)

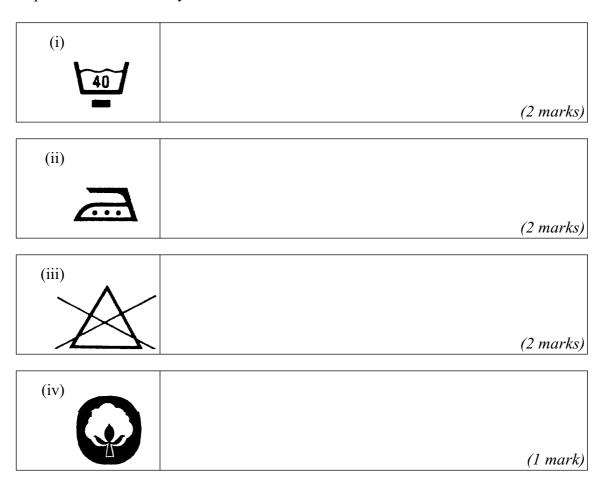
Turn over for the next question

Question 7 is about fabric used for a cushion.

7	(a)	The	fabric used is made from 100% cotton.
		(i)	Give three detailed reasons why this is a suitable fabric for a cushion.
			1
			2
			3
			(6 marks)
		(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.
			(2 marks)

(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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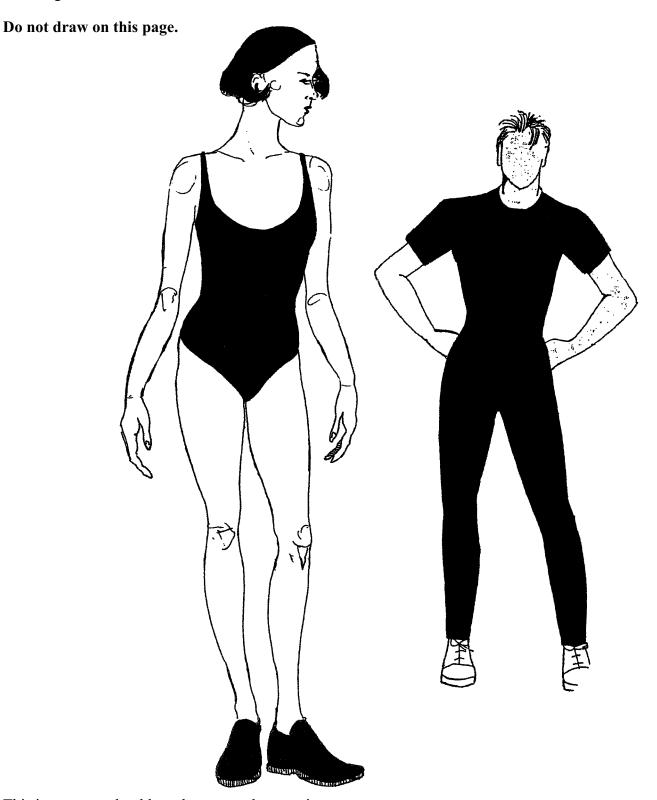
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General Certificate of Secondary Education June 2007 Foundation and Higher Tiers Examination

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.



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Insert to

3547/F 3547/H 3557/F 3557/H General Certificate of Secondary Education June 2007 Foundation Tier Examination



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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