

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use

General Certificate of Secondary Education
June 2007

**DESIGN AND TECHNOLOGY
(TEXTILES TECHNOLOGY)
Written Paper
Higher Tier**

**3547/H
H**



Wednesday 13 June 2007 1.30 pm to 3.30 pm

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • 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 6.

For Examiner's Use			
Question	Mark	Question	Mark
1		5	
2		6	
3		7	
4		8	
Total (Column 1) →			
Total (Column 2) →			
TOTAL			
Examiner's Initials			

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.

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.

Question 1 is about research to generate design ideas.

- 1 (a) Some designers and companies use recycled fabrics, textile products and components to make new and original products.

Describe the work of **one** of these designers or companies.

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(4 marks)

- (b) Some new fashion products are designed to look ‘old’.

Describe **three** ways in which new fashion products are made to look ‘old’.

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(3 marks)

- (c) Explain **two** problems of using recycled materials to make new textile products.

1

2

(2 marks)

Turn over ►

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 × 3 marks)*
- quality of notes and sketches. *(2 × 2 marks)*

Design Idea A

(5 marks)

Design Idea B

(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

Explain how your chosen design idea will sell well as part of a designer's limited range of products.

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(3 marks)

Question 2 continues on the next page

Turn over ►

(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)*

Turn over ►

Question 3 is about the decorative techniques used on your product.

3 (a) (i) Name **one** decorative technique you have chosen.

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(1 mark)

(ii) Explain why you think it is suitable.

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(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)

<hr/> 10

Question 4 is about manufacturing your product for a wider market.

4 Explain **three** changes which could be made to your design so that it could be manufactured in quantity.

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(9 marks)

Turn over for the next question

9

Turn over ►

Question 5 is about textiles and the environment.

5 Describe ways in which the manufacture and use of textiles can damage the environment.

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(8 marks)

8

Question 6 is about fabric manufacture.

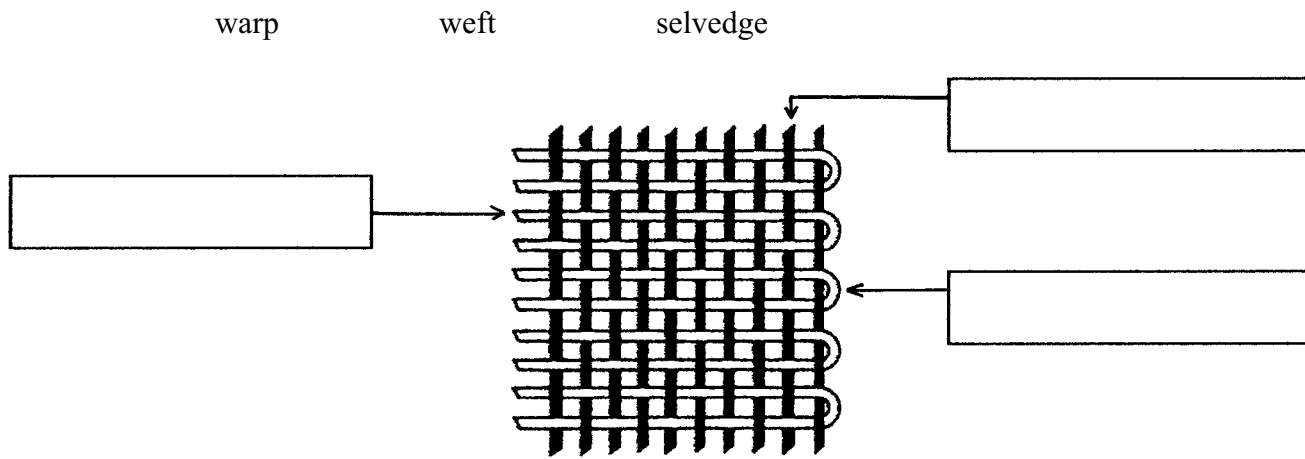
6 Study the photograph of the printed fabric shown on the insert sheet.

(a) The fabric has been woven using the method shown below.

(i) What is the name of this weave?

.....
(1 mark)

(ii) Label **each** of the following correctly in the boxes shown below.



(3 marks)

(iii) Give **two** features of this weave which make a fabric suitable for printing onto.

1
2
(2 marks)

(b) Printing is a popular method of adding colour to a fabric.

Briefly describe **one** industrial printing method which could be used to put the pattern on the fabric shown on the insert sheet.

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(3 marks)

Question 6 continues on the next page

Turn over ►

(c) Computers are used in the design and manufacture of printed fabrics.

(i) Explain how Computer Aided Design (CAD) can be used to produce a print design.

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(4 marks)

(ii) Explain how Computer Aided Manufacture (CAM) can be used to produce a printed fabric.

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(4 marks)

(d) Look again at the picture of the printed fabric shown on the insert sheet.

The manufacturer will need to take care when making products from this fabric.

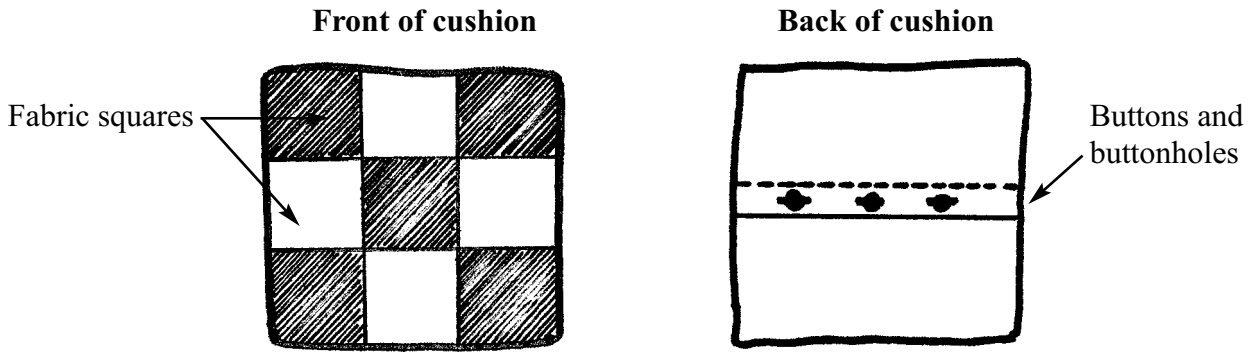
Explain why.

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(2 marks)

Question 7 is about industrial production systems.

7 Look at the drawings of the cushion shown below.



- (a) Complete the chart below to
- (i) show the stages of manufacture to make this cushion, *(6 marks)*
 - (ii) show **one** quality control check that will be needed at each stage, *(6 marks)*
 - (iii) explain a problem with the product that might occur if the quality control check is not carried out at each stage. *(6 marks)*

Stage of manufacture	Quality control check	Problem that might occur

Turn over ►

(b) Some parts of the cushion will be made as a *sub-assembly*.

(i) What is meant by a sub-assembly?

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(1 mark)

(ii) Identify **one** part of the cushion which could be made on a sub-assembly line.

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(1 mark)

(iii) Give **two** reasons why sub-assembly is used in industrial manufacture.

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(2 marks)

Question 8 is about fabric used for a cushion.

8 (a) The fabric used is made from 100% cotton.

(i) Evaluate the suitability of this fabric for a cushion.

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(7 marks)

(ii) Explain how using a blend of polyester and cotton would change the properties of the fabric.

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(4 marks)

Question 8 continues on the next page

Turn over ►

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

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



(4 marks)

END OF QUESTIONS

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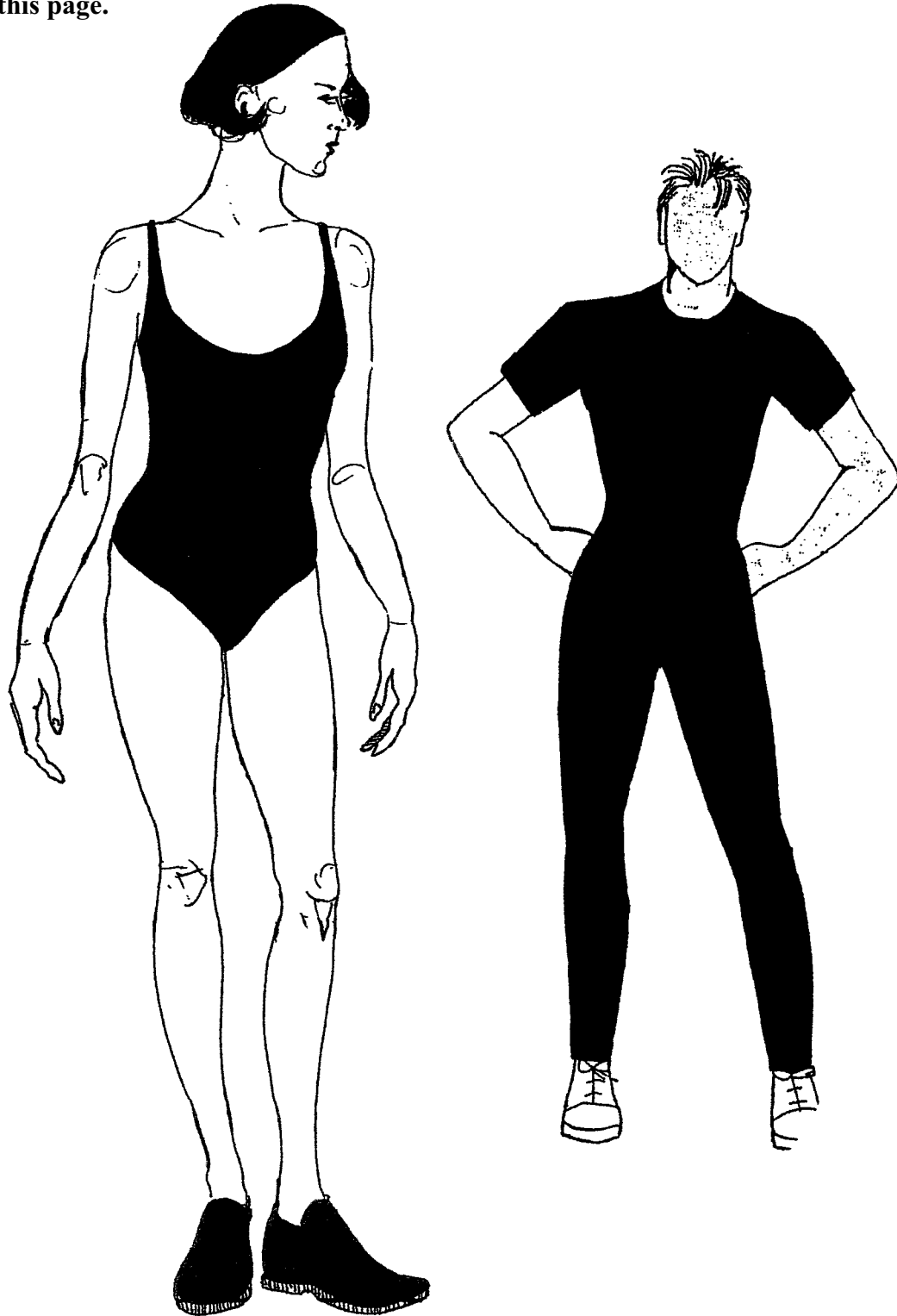
**DESIGN AND TECHNOLOGY
(TEXTILES TECHNOLOGY)
Full and Short Courses**



ASSESSMENT and
QUALIFICATIONS
ALLIANCE

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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TP/Jun07/3547/F/H/3557/F/H

Insert to

**3547/F 3547/H
3557/F 3557/H**

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June 2007
Higher Tier Examination

**DESIGN AND TECHNOLOGY
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This insert is provided for use with Question 6.

Photograph of printed fabric.

Photograph of printed fabric showing birds and blue flowers on intertwined vine is not reproduced here due to third-party copyright constraints.

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Insert to

**3547/H
3557/H**