

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											

For Examiner's Use
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General Certificate of Secondary Education  
June 2007

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

**3557/H  
H**



Wednesday 13 June 2007 1.30 pm to 3.00 pm

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>• a pen, a pencil, a ruler, an eraser, a pencil sharpener and coloured pencils</li> <li>• an insert for use with Question 2</li> <li>• an insert for use with Question 6.</li> </ul>
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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: 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.

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**Design brief**

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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.

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 **two** ways in which designers have used recycled textile materials in their designs.

1 .....

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2 .....

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(4 marks)

- (b) Explain **one** problem which might be caused by using recycled materials to make new textile products.

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(1 mark)

- (c) Market research shows that people want products which are unique rather than those which are mass manufactured.

Describe **two** ways in which using recycled fabrics can make products more individual.

1 .....

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2 .....

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(4 marks)

<hr style="width: 100%;"/> <b>9</b>
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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 technique used on your product.

3 (a) Name the decorative technique you have chosen.

.....  
(1 mark)

(b) Explain why you think the technique named in part (a) is suitable.

.....  
.....  
.....  
(3 marks)

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

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

1 .....

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2 .....

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(6 marks)

**Turn over for the next question**

      
**6**

**Turn over ►**

Question 5 is about textiles and the environment.

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

1 .....

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2 .....

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*(4 marks)*

4
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Question 6 is about fabric manufacture.

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

(a) 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)*

(b) Explain **one** quality control check that will be needed when printing this fabric.

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*(2 marks)*

(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)*

**Question 6 continues on the next page**

**Turn over ►**

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

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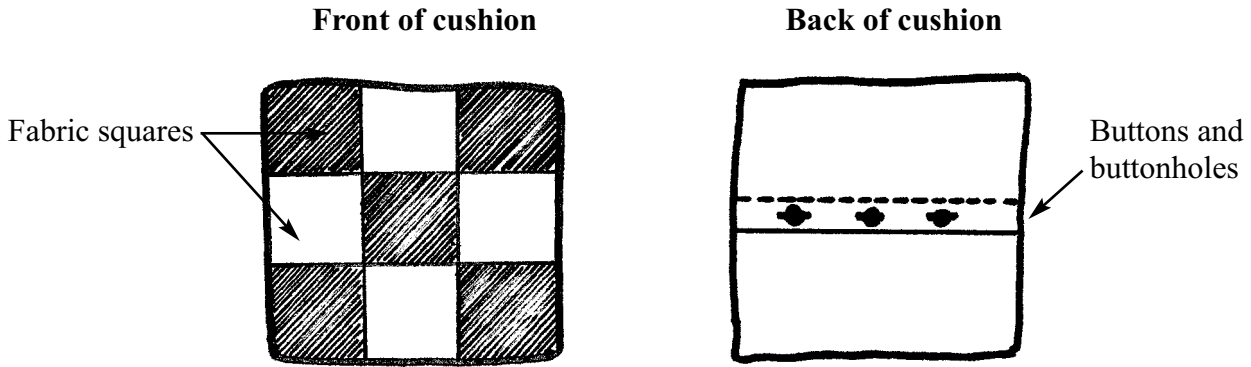
.....

*(4 marks)*

**13**

Question 7 is about industrial production systems.

7 Look at the drawings of the cushion shown below.



(a) Complete the chart below to show

- (i) the stages of manufacture to make this cushion, (6 marks)
- (ii) **one** quality control check that will be needed at each stage. (6 marks)

Stage of manufacture	Quality control check

Question 7 continues on the next page

Turn over ►

(b) The manufacturing specification will have set *tolerance levels* for the manufacture of the cushion.

(i) What are tolerance levels?

.....  
.....

(2 marks)

(ii) Identify **one** stage of the cushion manufacture where tolerance levels will be important.

Stage of manufacture .....

Explain the consequences of **not** working to tolerance levels in this area.

Not working to tolerance levels will mean that .....

.....

(2 marks)

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

(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.

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(1 mark)

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

1 .....

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2 .....

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(2 marks)

Question 8 is about fabric used for a cushion.

8 The fabric used is made from 100% cotton.

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

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(7 marks)

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

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(4 marks)

**END OF QUESTIONS**

**There are no questions printed on this page**



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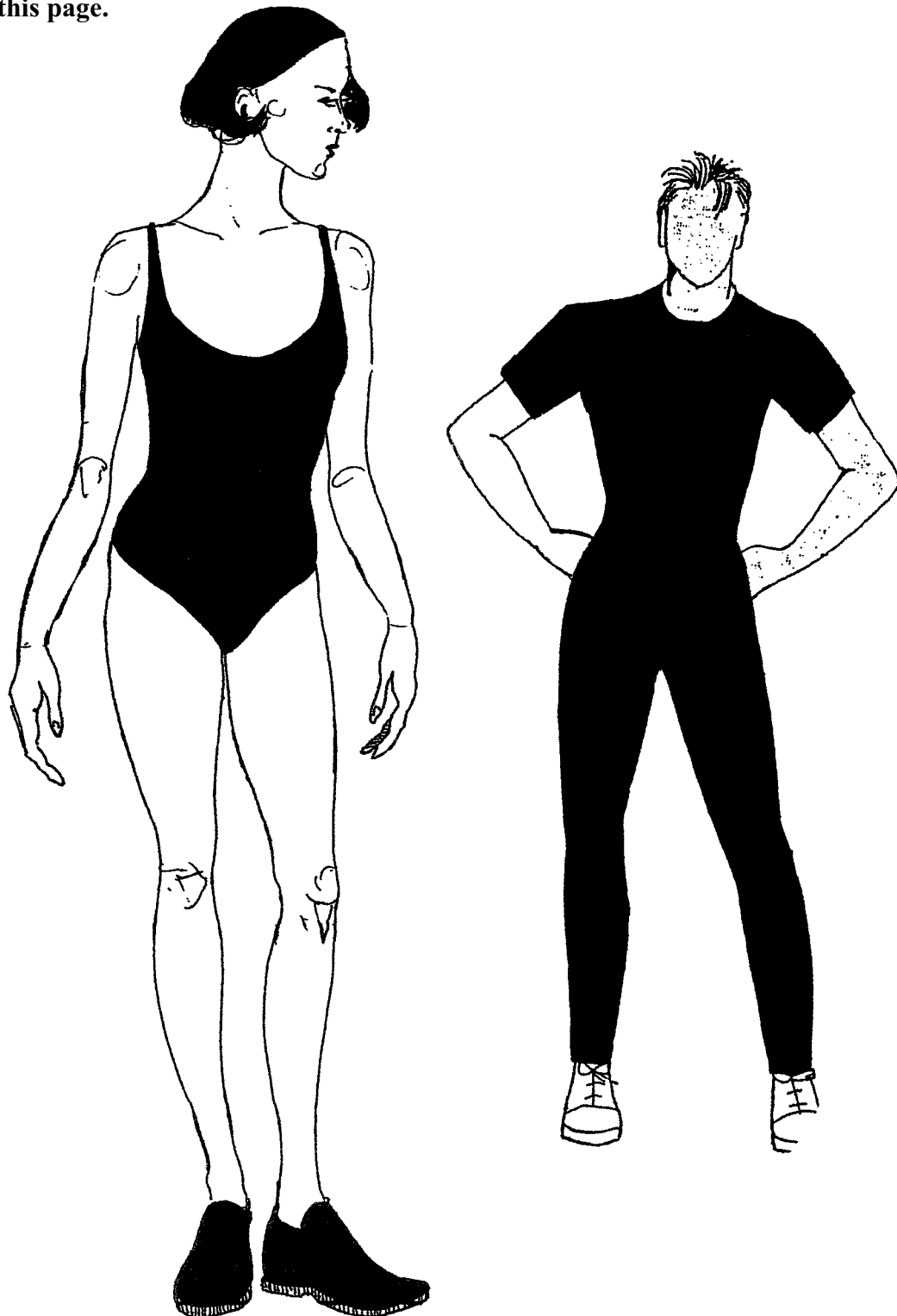


ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

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

Insert to

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

General Certificate of Secondary Education  
June 2007  
Higher Tier Examination

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



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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TP/Jun07/3547/H/3557/H

**Insert to**

**3547/H  
3557/H**