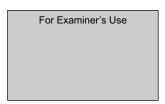
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General Certificate of Secondary Education June 2006

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





Wednesday 14 June 2006 1.30 pm to 3.00 pm

For this paper you must have:

- a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils
- an insert sheet 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.

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

TP/Jun06/3557/H 6/6/6/6 **3557/H**

Design brief

A specialist bag store sells many different types of bags.

You have been asked to design and make a bag to be sold in the store.

The bag must

- be based on the theme of 'Pop Art'
- have an appliqué decoration
- include a method of carrying or hanging the bag
- have different sections to separate things in the bag
- be suitable for industrial production.

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

Answer all the questions in the spaces provided.

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1

(a)	The store has been selling a range of bags for a long time.
	How might information about recent sales figures be useful when planning new products?
	(3 marks)
(b)	Designers have to think about the effects of the products they design.
	(i) Explain two ways that a design could affect the health and safety of workers when they are making a bag.
	1
	2
	(4 marks)
	(ii) The bag must also be environmentally friendly.
	Explain two ways that a bag design could affect the environment.
	1
	2
	(4 marks)

11

(a)	You have been asked to show yo	our design ideas.		
	Use the information given in the	e design brief on page	e 2.	
	Use pencil to draw and label tw	o different design idea	as for your product.	
	Marks will be given for:			
	quality of two differentquality of notes and sl	_	$(2 \times 3 \text{ marks})$ $(2 \times 2 \text{ marks})$	
Des	ign Idea A			
Wha	at could this bag be used for?			
Wha	at could this bag be used for?			
	at could this bag be used for?			
Des				(5 marks

(b)	Choose one of your design ideas for development.
	Tick the box to show the design idea you would choose.
	Design Idea A Design Idea B
	Who is the target market for this bag?
	Explain how the design idea you have chosen will appeal to your target market.
	(3 marks)

5

Question 2 continues on the next page

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

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

You must show a front and a back view.

Marks will be given for:

•	use of the Pop Art theme;	(4 marks)
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• originality and quality of the design including the appliqué, different sections and method of carrying or hanging the bag;

(10 marks)

• use of colour; (3 marks)

• use of fabrics and components; (4 marks)

• presentation of the final idea. (3 marks) (24 marks)

Question 3 is about fabrics and components.

Describe the qualities you need in the main fabrics for your product.
Explain why you think these qualities are important.
(6 marks)

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Question 4 is about developing your bag.

4

You	have been asked to include a method of c	carrying or hanging the bag.
(a)	Use notes and diagrams to describe one your ideas. You will need to show how it	method you might consider when developing it is attached to the bag.
		(3 marks)
(b)	Evaluate the suitability of this method fo	r your bag.
		(2 marks)
(c)	Explain how you will decide on the size	of your bag.
		(2 marks)

Question 5 is about industrial manufacture.

- A manufacturer is making the shorts shown on the insert sheet as part of a new range of casual wear.
 - Explain how **two** different features make the shorts suitable for casual wear.

(a) Look carefully at the shorts shown on the insert sheet.

(1)) Feature 1 is	
()	,	
		• • • • • • • • • • • • • • • • • • • •
		(2 marks)
		(2 marks)
(ii)) Feature 2 is	
(Π)	<i>j</i> realure 2 is	

(2 marks)

(b) Complete the manufacturing specification below for **one** pair of shorts.

Fabric:	Diagram to show how outside leg seam will be constructed
$0.80\mathrm{m} \times 150\mathrm{cm}$ medium weight woven cotton	constructed
Description of three components needed:	
1	
2	
3	
(6 marks)	(4 marks)
Diagram to show how hem of shorts leg will be made	Explain three Quality Control checks for front pockets
	1
	1
	2

	(1 mark,
think it would be useful.	

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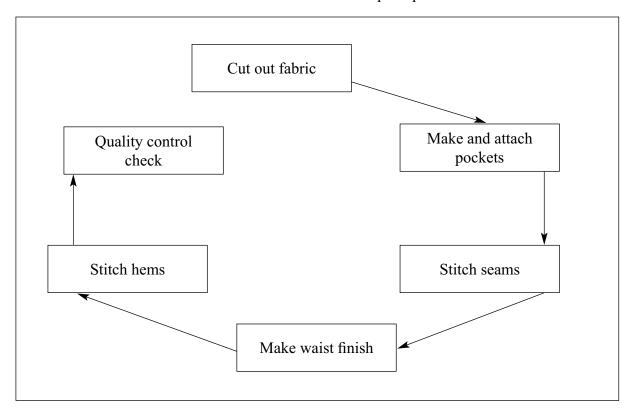
Question 6 is about industrial production systems.

6 An efficient manufacturing system for the shorts in Question 5 is important.

Study the manufacturing system shown below.

Manufacturing System

Each worker in the team makes a complete pair of shorts.



a)	Why is this an efficient system for a manufacturer?
	Give reasons.
	(4 marks)

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(b)	Computerised manufacture can help with efficiency.
	Give specific ways in which computerised manufacture can
	(i) reduce labour costs in two different ways;
	1
	2
	(4 marks)
	(ii) make the workplace safer in two different ways.
	1
	2
	(4 marks)

END OF QUESTIONS

There are no questions printed on this page

There are no questions printed on this page

General Certificate of Secondary Education June 2006

DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY) Full and Short Courses Foundation and Higher Tiers



This insert is provided for use with Question 5.

Front view of shorts



Back view of shorts



This insert page should **not** be sent to the examiner.