Surname	Other	Names			
Centre Number		Candi	date Number		
Candidate Signature					

For Examiner's Use

General Certificate of Secondary Education June 2006

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





Wednesday 14 June 2006 1.30 pm to 3.30 pm

#### For this paper you must have:

- a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils
- 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	Mark	Question	Mark		
1					
2		6			
3 7					
4					
Total (Column 1)					
Total (Column 2) —					
TOTAL					
Examine	r's Initials				

TP/Jun06/3547/F 6/6/6/6 **3547/F** 

There are no questions printed on this page

## **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
- be suitable for industrial production.

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

Turn over for the first question

## Answer all the questions in the spaces provided.

## Question 1 is about research.

1 (a) A designer needs to carry out research before starting to design a new bag.

Complete the table below. An example has been done for you.

Things a designer needs to know	Reason 1	Reason 2
What time of year the bag will be sold.	A beach style is suitable for summer.	Fabrics used for a winter bag need to be water resistant.
1		
2		

(6 marks)

(h)	Decignary 1	nust think al	sout the mar	nifoctura.	of the h	. α α
(n)	Designers i	nusi inink ar	ooui ine mar	шиасште	oi ine n	เลง

Explain <b>two</b> ways that a design could affect the health and safety of workers wh they are making a bag.	en
1	
	•••••
2	•••••
2	 

(ii)	The bag must also be environmentally friendly.
	Explain <b>two</b> ways that a bag design could affect the environment.
	1
	2
	(4 marks)
	(4 marks)

Turn over for the next question

Turn over ▶

A A	• • •			1 4
( Direction 2	าร จทกบร	' decionino	VAIIP	nraduct
Question 2	is about	ucsigning	your	product

	n 2 is about designing your product.						
(a)	You have been asked to show your design ideas						
	Use the information given in the <b>design brief</b> on page 3.						
	Use pencil to draw and label <b>two</b> different desig	n ideas for your product.					
	Marks will be given for:						
	<ul><li>quality of two different design ideas</li><li>quality of notes and sketches.</li></ul>						
	at could this bag be used for?						
	sign Idea B						

What could this bag be used for?

(5 marks)

TP/Jun06/3547/F

(b)	Choose <b>one</b> of your design ideas for development.	
	Tick the box to show the design idea you have chosen.	
	Design Idea A Design Idea B	
	(i) Who is the target market for this bag?	
		(1 mark)
	(ii) Explain why the target market would buy this bag.	
		(2 marks)

Question 2 continues on the next page

**Turn over** ►

(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 Pob Art theme: 14 marks	•	use of the Pop Art theme;	(4 marks)
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• originality and quality of the design including the appliqué and method of carrying or hanging the bag;

(8 marks)

• use of colour; (3 marks)

• use of fabrics and components; (4 marks)

• presentation of the final idea. (3 marks) (22 marks)

35

9

# Question 3 is about fabrics and components for your bag.

3	(a)	List <b>three</b> qualities that will be needed in the main fabric for your bag.	
		Explain why each is important.	
		Quality 1 is	
		It is important because	
		Quality 2 is	
		It is important because	
		Quality 3 is	
		It is important because	(6 marks)
	(b)	A manufacturer may use an interfacing like 'Bondaweb' when making the app	oliqué.
		(i) Give <b>two</b> reasons why this may be used.	
		1	
		2	(2 marks)
		(ii) Using interfacing will make the bag more expensive to make.	
		Give <b>one</b> reason why the manufacturer thinks it is worth the extra cost.	
			(1 mark)

## Question 4 is about developing your bag.

- 4 You will need to develop parts of your bag.
  - (a) Use notes and diagrams to show **two** different methods of hanging or carrying the bag. You will need to show how they are attached to the bag.

Method 1	
	(3 marks)
Method 2	
	(3 marks)
(b) Which method will be best for <b>your bag</b>	?
Explain why.	
	(2 marks)

Question 4 continues on the next page

(c)	You	will	I need to work out the size of your bag.	
	Expl	lain o	one way you can do this.	
		•••••		
	•••••			(3 marks)
(d)	(i)	A pa	pattern template will be needed for cutting the fabric.	
		Exp	plain <b>two</b> advantages of using a pattern template that has been used be	fore.
		1		
				•••••
		2		
				(4 marks)
	(ii)	Exp	plain <b>one</b> advantage of making a new pattern template.	
		•••••		
		•••••		
		•••••		(2 marks)

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# Question 5 is about industrial manufacturing specifications.

5

You must now look at the pictures of the shorts on the insert sheet.	
A manufacturer is making the shorts shown on the insert sheet.	
(a) A manufacturing specification will be needed.	
Complete the specification by ticking the correct answers for each of the following.	
(i) Which <b>two</b> components will be needed?	
• buckle	
• elastic	
• popper fastenings	
• sequins	
• zips (2 marks)	
(ii) Each pair of shorts needs 1 metre of fabric.  100 pairs will need  100 metres.  500 metres.  1000 metres.  (1 mark)  (iii) The thread for the seams will need to be  an embroidery thread.  a matching colour.  a contrasting colour.	
Question 5 continues on the next page	

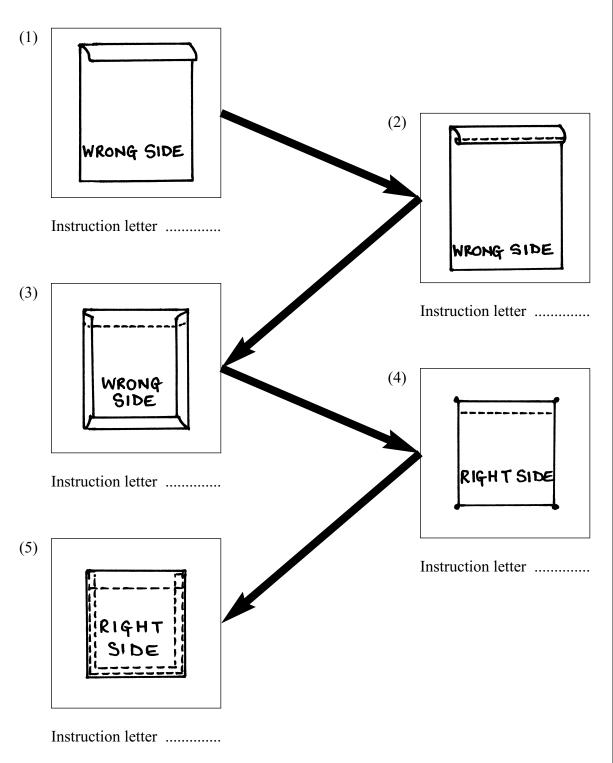
(b)	The shorts fabric is made from 100% cotton.						
	Explain how <b>one</b> special fabric finish could make the shorts easier to care for.						
	One suitable finish is						
	It would be useful because						
	(3 marks)						

(c) There are different methods of making pockets.

This is one method.

Match the instructions given below to the drawings opposite. Write the instruction letter (A to E) in the space under the diagram. Each letter should be used once.

A	Place the pocket on the shorts in marked position.
В	Fold the top hem under and stitch down.
С	Make a turning at the top of the pocket.
D	Fold the turnings under on the other three sides of the pocket.
Е	Stitch pocket in place on all three edges.

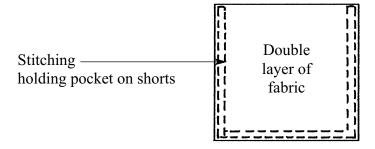


(5 marks)

Question 5 continues on the next page

(d)	There is	a pocket	on the	back	of the	shorts.
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A diagram is shown below.



	(i)	Explain why a double layer of fabric has been used for the pocket.	
			(2 marks)
	(ii)	Give <b>two</b> reasons why two rows of stitching are used to sew the pocket to shorts.	the .
		1	
		2	(2 marks)
(e)	Hav	re another look at the pockets on the shorts.	
	Giv	e two ways of making the pockets cheaper to manufacture.	
	1		
	2		

20

(4 marks)

## Question 6 is about industrial product systems.

6 Look at the way these two factories organize the making of the shorts.

Factory A	Factory B
Each worker in the team makes a complete pair of shorts.	Each worker in the team does a different job on the shorts. For example, sews the pockets on.
(a)(i) Give <b>two</b> advantages of the Factory A system.	(ii) Give <b>two</b> <i>advantages</i> of the Factory B system.
1	1
2	2
(2 marks)	(2 marks)
(b)(i) Give <b>two</b> <i>disadvantages</i> of the Factory A system.	(ii) Give <b>two</b> disadvantages of the Factory B system.
1	1
2	2
(2 marks)	(2 marks)

Question 6 continues on the next page

(c)	Com	puter	rs can be used to help manufacturing.	
	(i)	Give	e two advantages when using them to cut out fabric.	
		1		
		2	(	2 marks)
	(ii)	Give	e two dangers for people working on the cutting out of fabric.	
		1		
		2		
				2 marks)
(d)	Give	two	different ways in which computers can be used to	
	(i)	keep	a check on components in stock,	
		1		
		2	(	2 marks)
	(ii)	put c	colour and pattern on to fabric.	
		1		
		2	(	 2 marks)
(e)	(i)	The p	pockets for the shorts will be made separately on a sub-assembly line.	
		Give	e one reason for doing this.	
				(1 mark)

(ii) The quality control checker has found two faults on the pockets	(ii)	The	quality	control	checker	has	found	two	faults	on	the	pockets
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Fill in the table below for the quality control team.

Fault	What problem will it cause?	How can it be put right?
1 The pockets are larger than the specification says they should be.		
2 The pockets are sewn on crooked and not in the right place.		

(6 marks)

` /		<b>two</b> things that quality control will need to look for when checking the pers on the shorts.
	1	

(2 marks)

Turn over for the next question

2

# Question 7 is about textile products and the consumer.

7	(a)	A textile product has an information label.	
		Give three things that might be on this label.	
		1	
		2	
		3	(3 marks)
	(b)	Bar codes like the one shown below are often put on textile products. Give <b>two</b> advantages of these barcodes for the consumer/retailer.	
		1	
		2	
			(2 marks)

END OF QUESTIONS

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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.