Surname	Other Names			
Centre Number	Candi	idate Number		
Candidate Signature			·	

For Examiner's Use

General Certificate of Secondary Education June 2006

DESIGN AND TECHNOLOGY (TEXTILES TECHNOLOGY) (SHORT COURSE) Written Paper Foundation 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 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		5					
2		6					
3		7					
4							
Total (Co	olumn 1)	->					
Total (Co	olumn 2) -	-					
TOTAL							
Examiner's Initials							

TP/Jun06/3557/F 6/6/6/6 **3557/F**

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.

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)

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ı	(b)	INAN	ar much	he	environme	ntaliv	triend	137
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Explain two ways that a bag design could affect the environment.

1	 	 	

2			

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	11	7 \

(4 marks)

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	IIIACTIAN	•	10	about	decignin	o vour	nraduct
v	ucsuon	4	13	anout	ucsignin	iz your	product.

2 ((a)	You l	nave	been	asked	to	show	your	design	ideas.

Use the information given in the **design brief** on page 2.

Use pencil to draw and label two different design ideas for your product.

Marks will be given for:

- quality of two different design ideas $(2 \times 3 \text{ marks})$
- quality of notes and sketches. $(2 \times 2 \text{ marks})$

D	esign	Idea	A

nat could this bag be used for?	
sign Idea B	(5 marks

(b)	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	
	(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

(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)	
•	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)

Question 3 is about fabrics and components for your bag.

3	(a)	List three qualities that will be needed in the main fabric for your bag.
		Explain why each is important.
		Quality 1 is
		It it important because
		Quality 2 is
		It it important because
		Quality 3 is
		It it important because
	(b)	Give one reason why an interfacing like 'Bondaweb' may be used when making the appliqué.
		(1 mark)

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Question 4 is about developing your bag.

4

You	will need to develop parts of your bag.	
(a)	Use notes and diagrams to show one me need to show how it is attached to the ba	thod of hanging or carrying the bag. You will ag.
		(3 marks)
(b)	Explain why you think this method would	ld be best for your bag .
		(2 marks)
(c)	You will need to work out the size of you	ur bag.
	Explain one way you can do this.	
		(3 marks)

Question 5 is about industrial manufacturing specifications.

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 two 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. (1 mark)

(b)	There is a pocket on the back of the shorts.
	A diagram is shown below.
	Stitching — Double layer of holding pocket on shorts I layer of fabric
	(i) Explain why a double layer of fabric has been used for the pocket.
	(2 marks)
	(ii) Give two reasons why two rows of stitching are used to sew the pocket to the shorts.
	1
	2
(c)	Have another look at the pockets on the shorts.
	Explain two ways of making the pockets cheaper to manufacture.
	1

12

(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 two advantages of the Factory A system.	(ii) Give two advantages of the Factory B system.	
1	1	
2	2	
(2 marks)	(2 marks)	
(b)(i) Give two disadvantages of the Factory A system.	(ii) Give two <i>disadvantages</i> of the Factory B system.	
1	. 1	
2	2	
(2 marks)	(2 marks)	

(c)	Compu	ters can be used to help manufacturing.	
	(i) Gi	ve two advantages when using them to lay and cut out fabric.	
	1		
	2		(2 marks)
	(ii) Gi	ve two dangers for people working on the cutting out of fabric.	
	1		•••••
	2		(2 marks)
(d)	Give tw	o different ways in which computers can be used to	
	(i) ke	ep a check on components in stock,	
	1		
	2		(2 marks)
	(ii) pu	t colour and pattern on to fabric.	
	1		•••••
	2		(2 marks)
(e)	(i) Th	e pockets for the shorts will be made separately on a sub-assembly lin	e.
	Gi	ve one reason for doing this.	
	•••		
	•••		(1 mark)

Question 6 continues on the next page

(ii) The quality control checker has found two faults on the poor

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)

(iii)	Give two things that quali	ty control w	rill need to l	ook for when	n checking the
	poppers on the shorts.				

1

2

(2 marks)

Question 7 is about textile products and the consumer.

7 A textile product has an information label.

Give three things that might be on this label.

.....

2

3

(3 marks)

END OF QUESTIONS

There are no questions printed on this page

There are no questions printed on this page

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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.