Surname					Other	Names			
Centre Nur	mber					Candi	date Number		
Candidate Signature									

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General Certificate of Secondary Education June 2004

DESIGN AND TECHNOLOGY: TEXTILES TECHNOLOGY (SHORT COURSE) Foundation Tier

3557/F

F



Thursday 24 June 2004 1.30 pm to 3.00 pm

In addition to this paper you will require:

a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils.

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 in the spaces provided.
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want marked.

Information

- The maximum mark for this paper is 100.
- Mark allocations are shown in brackets.
- An insert with body shapes has been provided as a guide for the candidates doing the fashion option.
- Wherever calculations are needed you should show your working.
- You are reminded of the need for good English and clear presentation.

For Examiner's Use				
Number	Mark			
1				
2				
3				
4				
5				
6				
TOTAL				
Examiner's initials				

TP/0204/3557/F 6/6/6/6 3557/F

Design bri	ef					
You are a to	You are a textile product designer.					
You have to	o design a denim product for children aged 5 to 10 years old.					
Your produ	Your product will need to sell well.					
Choose one	e of the following:					
either	r					
A	a textile product for a child's room					
or						
В	an item of clothing for a child.					
•	The product will be batch produced.					
•]	It must be made from denim fabric.					
•	The product must be decorated.					
Tick the box to show which one you have chosen.						
	A textile product for a child's room.					
	An item of clothing for a child.					

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

NO QUESTIONS APPEAR ON THIS PAGE

Answer all questions in the spaces provided.

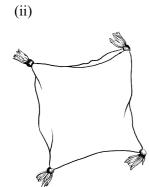
Question 1 is about researching existing products.

1	(-)	T1	:	4:			~ ~ 11: ~		_11
ı	(a)	These	existing	aemm	products	are not	seming	very w	en.

Give **two** reasons why they are not selling well.

(i)			
		or II	
AR POLICE	199	7714	alkarin.

1			 				 	
2	•••••	•••••	 	•••••	•••••	•••••	 	 •••••
								(2 marks

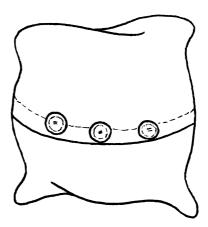


1	
2	

(b)	Fastenings	on a	product	are i	important.
(~)	- 400 1411111150	011 00	Product		

Look at the products below.





	(i)	Name the fastening used.	
			(1 mark)
	(ii)	Name one different fastening that could be used.	
			(1 mark)
	(iii)	Give two reasons for your choice.	
		1	
		2	(2 marks)
(c)	Give prod	e three things a designer would need to find out about denim fabrics before ucts.	designing
	1		
	2		
	3		(3 marks)

Question 2 is about the design of your product.

2	(a)	Products must be safe for children to use.
		Explain two different ways a designer can make sure a product is safe for children.
		1
		(2 marks)
		2
		(2 marks)

(b)	You have been asked to show two design ideas to the manufacturer.					
	The design specification says that the product must:					
	 be made from denim; be decorated in an original way; be batch produced. (i) Draw two ideas in pencil. 					
	Idea A	Idea B	(8 marks)			
	Choose one of your ideas for development.		, , ,			
	Tick the box to show the idea you would choose	·.				
	Idea A	Idea B				
	(ii) Give one reason why you have chosen this idea	to develop.				
			(2 marks)			

(c) Present a final design for your product on this page and the next.

Show the decoration.

If you have chosen the fashion product you may use the body shapes as a guide.

Marks will be awarded for:

•	use of denim fabric/components;	(3 marks)
•	the decoration;	(5 marks)
•	originality and quality of the design;	(10 marks)
•	presentation of the final idea.	(3 marks)

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QUESTION 2 CONTINUES ON THE NEXT PAGE

Turn over ▶

(d)	You have been asked to decorate the produ	uct in an interesting way.
	(i) Name one decoration method you ha	ave used.
		(1 mark)
	(ii) Explain how you would do it. You c	an use drawings to help you.
		(6 marks)
(e)	Explain two reasons why you think your p	product is good value for money.
	1	
	2	
		(2 marks)



Question 3 is about the denim fabric and components used for you	r product.
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(a) Denim fabrics are usually made from cotton.

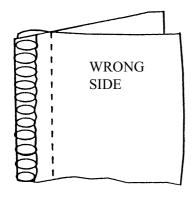
	Give three reasons why denim is a good fabric to use for your product.	
	1	
		•••••
	2	•••••
		•••••
	3	
		(6 marks)
(b)	You will need to design a care label for your denim product.	
	(i) Choose one symbol from each group below.	
	Put a circle around each symbol that you choose.	
	Turu onele ureuna euen symbor unut yeu eneese.	
Group A	95 60 50 40 40	
	۸ ۸۸	
Group B		
Group C	AAAX	
		(3 marks)
	(ii) Explain what the symbol you have chosen from Group A means.	
		•••••
		(2 marks)
(c)	Denim fabrics are usually dyed blue.	,
(c)		
	Explain one way in which a manufacturer can put different colour on the denim fabric.	
		(2 marks)

Question 4 is about the manufacturing process.

4 (a) Denim fabrics can fray badly. You will need to choose the seams carefully.

The seam below is often used on denim products.

Overlocked Seam



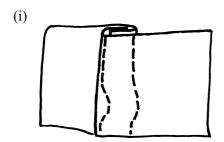
(i)	Why might you choose the overlocked seam?
	(2 marks)
(ii)	Why would you not choose the overlocked seam?

(2 marks)

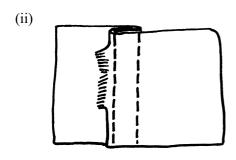
(b) Quality control found faults on the double stitched seams of a batch of products.

Give **one** reason why the fault has happened.

Explain how you would correct the fault.



Reason for fault
How to correct the fault
(2 marks)



Reason for fault	
How to correct the fault	
	(2 marks)

(c) Factories use computerised machines.

Give **two** different advantages of using computerised machines for each of the processes listed below.

	Process	Advantages
1	Pattern laying and cutting fabric	1
		2
2	Sewing buttonholes	1
		2
3	Steam pressing the final product	1
	•	
		2

(6 marks)

 $\left(\frac{1}{14}\right)$

TURN OVER FOR THE NEXT QUESTION

Question 5 is about the cost of manufacturing products.

(a)	Cost is in	mportant. Manufacturers need to save money.	
	Give one	e advantage and one disadvantage of each of these ways of saving money.	
	(i) Ma	terials are only delivered the day before they are needed.	
	Ad	vantage	
	Dis	advantage	(2 marks)
			(=)
	(ii) Sor	ne parts of products are made in another factory.	
	Ad	vantage	
	Dis	advantage	
			(2 marks)
(b)	Explain	why these are not good ways of saving money.	
	(i) Sev	ving machines are only serviced when they break down.	
	1		
	2		
			(2 marks)
	(ii) Buy	ving poor quality sewing thread which is cheaper.	
	1		
	2		(2 marks)

(c) Manufacturers often use computers to help them work out batch production costs.

An example of a spreadsheet with the cost of materials is shown below.

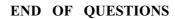
A	В	C	D E
1 Materials	Quantity bought	Cost per unit	Total cost
2 Buttons	7000	£0.05	£350.00
3 Care labels	1000	£0.02	£20.00
4 Fabric	2000 metres	£3.00	£6,000.00
5 Interfacing	500 metres	£0.50	£250.00
6 Lining	1500 metres	£1.00	£1,500.00
7 Packaging	1000 bags	£0.05	£50.00
8 Threads	100 reels	£2.00	£200.00
9			£8,370.00
10	·		
11			
<u>12 </u> 13	(AC 0.0.4.8.0.0.0.0.4.0.0.0.0.0.0.0.0.0.0.0.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
14			
15			
16			
<u>u</u>			
<u>18 </u>			
<u> </u>			
(C) Sheet1	(Sheet2 / Sheet3 / Sheet	4 / Sheet5 / Sheet6	∠ Sheet7 ∠ Sheet ∢

Give two other important costs needed before the selling price can be worked out.
1
2
(2 marks)
Give one advantage of using a computer spreadsheet to work out the final selling price.
(2 marks)

TURN OVER FOR THE NEXT QUESTION

Question 6 is about the selling of your textile product.

Give one advantage and one disadvantage of buying the products in each of the following places.		
(a) Market stall	Advantage:	
	(1 mark) Disadvantage:	
	(1 mark)	
(b) High street chain store	Advantage:	
	(1 mark) Disadvantage:	
The state of the s	(1 mark)	
(c) Mail order catalogue	Advantage:	
	(1 mark)	
	Disadvantage:	
	(1 mark)	

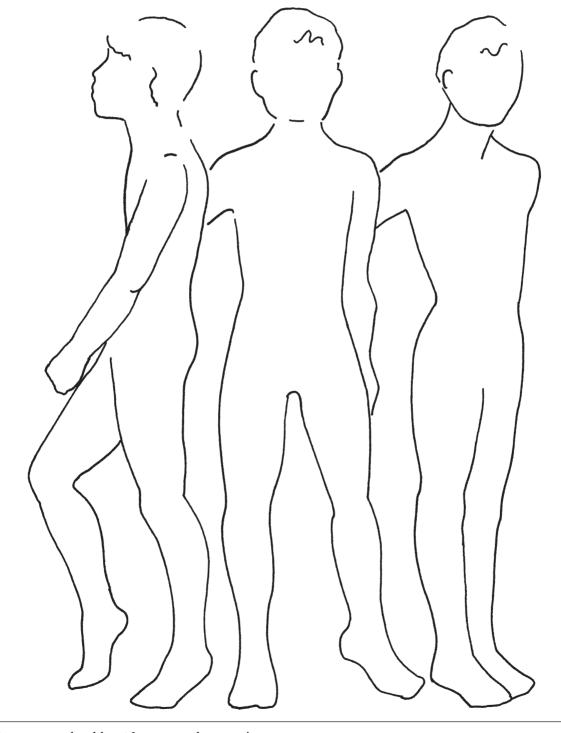




DESIGN AND TECHNOLOGY:

TEXTILES TECHNOLOGY: Full and Short Courses

This insert is provided for use in the examination. It may be used as a guide for the Fashion option. **Do not draw on this page.**



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