Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Education Advanced Subsidiary Examination June 2015

Design and Technology: Product Design (Textiles)

TEXT1

Unit 1 Materials, Components and Application

Tuesday 2 June 2015 9.00 am to 11.00 am

For this paper you must have:

- normal writing and drawing instruments
- an insert sheet (enclosed).

Time allowed

2 hours

Instructions

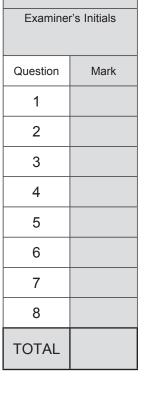
- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions in Section A.
- Answer one question from Section B, either Question 6 or Question 7.
- Answer the question in Section C.
- You must answer all questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- There are 20 marks for Section A, 20 marks for Section B and 40 marks for Section C.

Advice

- Illustrate your answers with sketches and/or diagrams wherever you feel it is appropriate.
- You are advised to spend approximately 30 minutes on Section A, 30 minutes on Section B and one hour on Section C.



For Examiner's Use

Section A

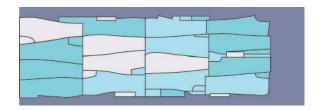
	Answer all questions in this section.					
1 (a)	Name the method of fabric construction shown below in question 1 (b).	[1 mark]				
1 (b)	Fill in the boxes with the correct names given to the rows of horizontal and vloops.	rertical [2 marks]				
	Horizontal rows —					
	Vertical rows					
1 (c)	Give three benefits of using this type of fabric for leisure wear.	[3 marks]				
	1					
	2					
	3					



2	The following symbols are often used when labelling textile products.	
	Explain the meaning of each symbol. $\mbox{ [3} \times \mbox{2 marks]}$	
	CE	
		6
3 (a)	What is meant by the term basic block as applied to a pattern template? [2 marks]	
3 (b)	Why is it often necessary to grade pattern templates? [1 mark]	
		3



					c	
4	The picture I	below snows a	a computerised	iaypian for	tasnion i	products.



Give **three** different ways in which computerised layplans can help when placing pattern templates on fabric.

[3 marks]
1
2
3
The British Standards Institute (BSI) make sure that the quality of textile products is acceptable. Give two ways the BSI can do this. [2 marks]
1
2

5

M/Jun15/TEXT1

Section B

Answer either Question 6 or Question 7.

6 Use your knowledge and understanding of cotton fibres together with the information given in the table below to answer the questions that follow.

Source	Properties	Some cotton fabrics
Cotton comes from a plant	Highly absorbent	Corduroy
It is a staple fibre	strong and hardwearing	Muslin
It is a cellulosic fibre	Creases badly	Denim
	Cool to wear	Broderie anglaise
	Non static	Gingham
	Highly flammable	Seersucker

6 (a)	Cotton is a staple fibre. What is meant by staple fibre?	[1 mark

Question 6 continues on the next page

6 (b)	Cotton is highly absorbent. Explain how this will affect products which are motion. Give examples.	in how this will affect products which are made from			
		[6 marks]			
		•••••			



6 (c) (i)	Cotton is cool to wear. Name one finish which is used to make cotton fabric a better insulator.
	[1 mark]
6 (c) (ii)	Describe how this finish makes cotton a good insulator. [2 marks]
6 (c) (iii)	Explain two important drawbacks of using this finish. [2 marks]
	Question 6 continues on the next page



6 (d)	Corduroy Muslin Denim Broderie anglaise Gingham Seersucker	[4 × 2 marks]	
			



Dο	not	answer this	question if	you have	answered	Question	6.

7 Use your knowledge and understanding of fibres and fabrics, together with the information given in the table below, to answer the questions which follow.

Fabric type	Typical uses
Twill weave fabric made from 100% wool fibre	Winter coats and jackets
Non-woven bonded fabrics	Disposable products
Fabric made from 60% viscose fibre and 40% polyester fibre	Fashion tops

7 (a)	Critically evaluate the suitability of the twill weave wool fabric for winter coats and jackets.
	[6 marks]
	Question 7 continues on the next page





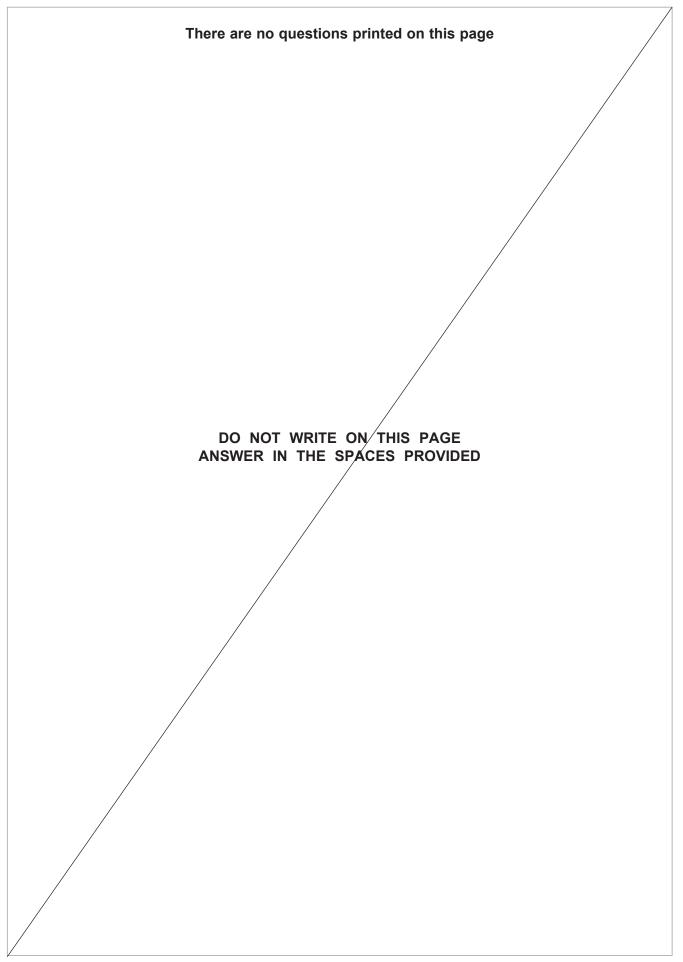
7 (b) (i)	Describe how a non-woven bonded fabric can be made. You may use a diagram.
	[3 marks]
7 (b) (ii)	Non-woven bonded fabrics are used to make disposable products. Explain why. Give
/ (b) (ii)	some examples of products to illustrate your answer.
	[5 marks]



7 (c)	Discuss the benefits of using a fabric made from a blend of viscose and polyester fibres to make fashion tops.
	[6 marks]









Section C

	Answer this question.
8	Look at the photographs of the winter sports jacket in Figures 1 , 2 , 3 and 4 on the Insert Sheet. The jacket is designed for outdoor winter sports activities. It is aimed at the mid-price range market.
8 (a)	Analyse the style features of the jacket that make it suited to outdoor winter sports activities. [6 marks]



8 (b)	The outer layer is made from a plain weave polyester fabric. The lining is made from a plain weave polyamide fabric.
	Explain why each of these fabrics is suitable for the jacket. [6 marks]



8 (c)	The outer fabric and lining are stitched together to give a quilted pattern.
	The spaces between the layers are filled with a mix of duck down and duck feathers.
	Explain the reasons why the quilted structure and the duck down and duck feather filling are used for the jacket.
	[5 marks]
8 (d)	Polyester thread is used for the stitching on the jacket.
	Give three reasons why polyester thread is used. [3 marks]
	Reason 1
	Reason 2
	D
	Reason 3





8 (e)	The person wearing the jacket is advised to stay away from fire. Explain why? [3 marks]
8 (f)	The jackets are sold packaged in the polyester bag shown below in Figure 5 .
	Figure 5
	Packaging for Winter Sports Jacket
	AQA Warm
	The shop has sample garments in different sizes for consumers to examine and try on. Critically evaluate this method of packaging the jacket in a polyester bag. Write about the consumer and the retailer in your answer. [6 marks]



8 (g)	Explain why the consumer is advised to dry clean the jacket if possible. [3 marks]	
	[o marko]	
	Question 8 continues on the next page	



8 (h)	The jacket can be modified to make it more appealing to the target market.	
	Describe two different modifications that can be made and explain why you think each	
	modification is needed. You may use diagrams. [8 marks]	



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END OF QUESTIONS	L



There are no questions printed on this page

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