

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
TOTAL	



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.



J U N 1 5 T E X T 1 0 1

**Section A**

Answer **all** questions in this section.

**1 (a)** Name the method of fabric construction shown below in question **1 (b)**.

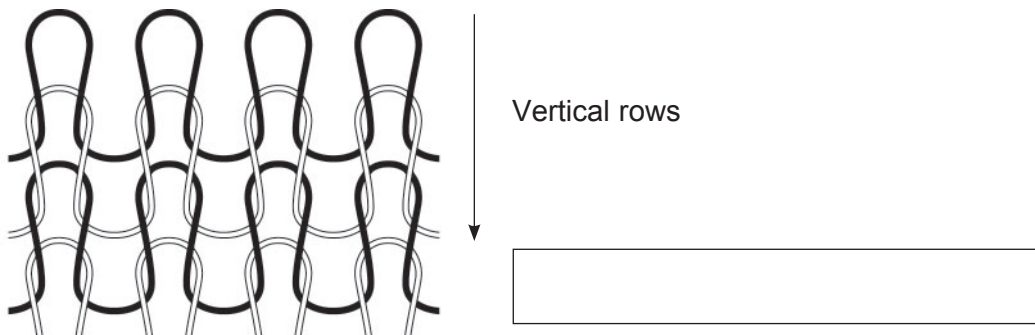
**[1 mark]**

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**1 (b)** Fill in the boxes with the correct names given to the rows of horizontal and vertical loops.

**[2 marks]**

Horizontal rows →



**1 (c)** Give **three** benefits of using this type of fabric for leisure wear.

**[3 marks]**

**1** .....

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**2** .....

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**3** .....

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2 The following symbols are often used when labelling textile products.  
Explain the meaning of each symbol.

[3 × 2 marks]



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6

3 (a) What is meant by the term basic block as applied to a pattern template?

[2 marks]

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3 (b) Why is it often necessary to grade pattern templates?

[1 mark]

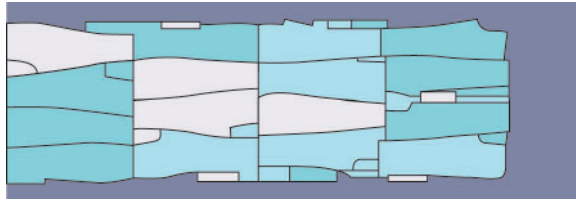
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3

Turn over ▶



4 The picture below shows a computerised layplan for fashion products.



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

[3 marks]

- 1 .....
- .....
- 2 .....
- .....
- 3 .....
- .....

3

5 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 .....
- .....

2



**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 <b>absorbent</b>	Corduroy
It is a <b>staple fibre</b>	<b>strong and hardwearing</b>	Muslin
It is a <b>cellulosic fibre</b>	<b>Creases badly</b>	Denim
	<b>Cool to wear</b>	Broderie anglaise
	<b>Non static</b>	Gingham
	Highly <b>flammable</b>	Seersucker

- 6 (a)** Cotton is a staple fibre. What is meant by staple fibre?

**[1 mark]**

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**Question 6 continues on the next page****Turn over ▶**



**6 (c) (i)** Cotton is cool to wear. Name **one** finish which is used to make cotton fabric a better insulator.

**[1 mark]**

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**6 (c) (ii)** Describe how this finish makes cotton a good insulator.

**[2 marks]**

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**6 (c) (iii)** Explain **two** important drawbacks of using this finish.

**[2 marks]**

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**Question 6 continues on the next page**

**Turn over ▶**



**6 (d)** Describe **four** of the cotton fabrics listed below. You may use diagrams.

**[4 × 2 marks]**

- Corduroy
- Muslin
- Denim
- Broderie anglaise
- Gingham
- Seersucker

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**7 (b) (i)** Describe how a non-woven bonded fabric can be made.  
You may use a diagram.

**[3 marks]**

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**7 (b) (ii)** Non-woven bonded fabrics are used to make disposable products. Explain why. Give some examples of products to illustrate your answer.

**[5 marks]**

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ANSWER IN THE SPACES PROVIDED**









8 (e) The person wearing the jacket is advised to stay away from fire. Explain why?

[3 marks]

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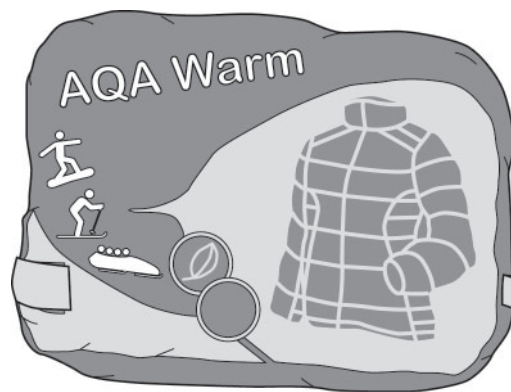
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8 (f) The jackets are sold packaged in the polyester bag shown below in **Figure 5**.

**Figure 5**

**Packaging for Winter Sports Jacket**



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]

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**8 (g)** Explain why the consumer is advised to dry clean the jacket if possible.

**[3 marks]**

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**Question 8 continues on the next page**

**Turn over ▶**



**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**

<b>40</b>



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