Centre Number			Candidate Number		
Surname					
Other Names					
Candidate Signature					



General Certificate of Education Advanced Subsidiary Examination June 2012

# Design and Technology: Product Design (Textiles)

TEXT1

Unit 1 Materials, Components and Application

Tuesday 22 May 2012 1.30 pm to 3.30 pm

## 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 8 or Question 9.
- Answer the Question in Section C.
- You must answer the questions in the spaces provided. Do not write outside the box around each page.
- Do all rough work in this book. Cross through any work you do not want to be marked.

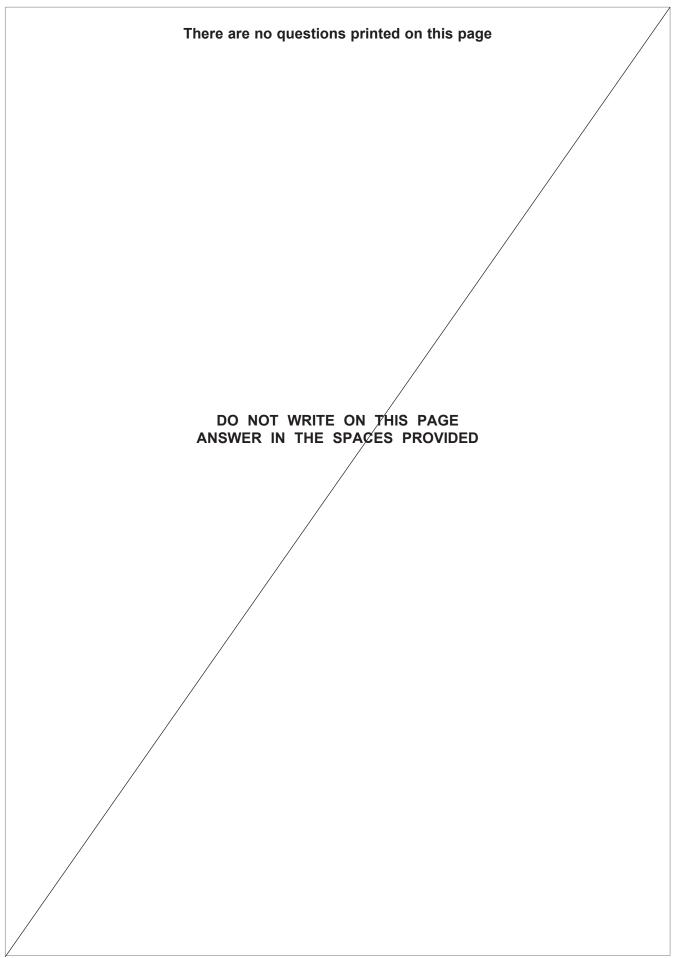
## Information

- 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 Exam	iner's Use
Examine	r's Initials
Question	Mark
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10	
TOTAL	





# Section A

	Answer <b>all</b> the questions in this section.	
1	Give <b>three</b> reasons why silk fabrics are popular for special occasion dresses.	
	(3 marks)	3
2	Explain the importance of twist when spinning a yarn.	
	(2 marks)	2
3	Explain why static electricity affects some fabrics but not others.	
	(3 marks)	3



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Give <b>two</b> reas	sons for using piping on the	edges of a cushion.	
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7	Designers use moodboards and presentation boards in their work.	
	What are the differences between a moodboard and a presentation board?	
	(4 marks)	4

Turn over for the next question



# Section B

	Answer either Question 8 or Question 9.
8	Many textile products need to be able to keep the consumer warm.
8 (a)	Quilted fabrics are good insulators.
	Describe the construction of a quilted fabric. You may use a diagram.
	(3 marks)
	(e mame)
8 (b)	Explain how a quilted fabric is able to keep a person warm.
	(2 marks)



8 (c)	Polar fleece is a good insulator.
	Describe the construction of polar fleece fabric. You may use a diagram.
	(3 marks)

Question 8 continues on the next page



(d)	A manufacturer is making a range of winter sports tops and has a choice of using a quilted cotton fabric or a polyester polar fleece.
	Critically compare the effectiveness of the two fabrics in relation to the intended use.
	(6 marks)



8 (e)	Giving examples, explain how the fibre content and the type of yarn can help to make a fabric with good insulation qualities.
	(6 marks)

20



Do not answer this question if you have answered Question 8.

**9** The photograph below shows a fashion top.



**9 (a)** The top is made from a weft knitted fabric.

Describe the construction of a weft knit. You may draw a diagram.

	(3 marks)



9 (b)	The fibre content of the fabric is 73% acrylic, 27% polyamide.
	Critically evaluate the suitability of this fabric for the top.
	Question 9(b) continues on the next page



	(8 marks)
9 (c)	(8 marks)  The top has a fashionable creased appearance.
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## **Section C**

Answer this question.

- For this question you need to refer to **Figures 1 6** on the insert sheet.
- 10 (a) In the space below, show how the templates (Figures 1 and 2) can be adapted to make a pattern for the fashion skirt (Figures 3, 4, 5 and 6).

(8 marks)



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a straight gra				
				(6
	Question 10 conti	nues on the nex	t page	



10 (c)	The skirt is to be made from a twill weave fabric.
	Describe a twill weave. You may use a diagram.
	/2 marks)
	(3 marks)



10 (d)	The fibre content of the twill woven fabric is 70% polyester, 30% viscose.
	Critically evaluate the use of this fabric for the skirt.
	Question 10(d) continues on the next page



		(8 marks)
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10 (e)	Name three different components which will be needed to make this	skirt.
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10 (f)	Quality control will be important to ensure that the skirt is made well.
	Explain the quality control issues relating to <b>two</b> different areas of the skirt.
	(6 marks)
	(6 marks)

Question 10 continues on the next page



10 (g)	The skirt will be commercially manufactured using a sub-assembly system.
	Explain the reasons why sub-assembly systems are used in industrial manufacture.
	(6 marks)
	(o mana)
	END OF QUESTIONS

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