

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Education
Advanced Subsidiary Examination
June 2011

Design and Technology: Product Design (Textiles)

TEXT1

Unit 1 Materials, Components and Application

Wednesday 18 May 2011 1.30 pm to 3.30 pm

For this paper you must have:

- normal writing and drawing instruments.

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 Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
TOTAL	



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TEXT1

Section A

Answer **all** the questions in this section.

- 1** Give **three** reasons why linen fabrics are popular for summer clothing.

1

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2

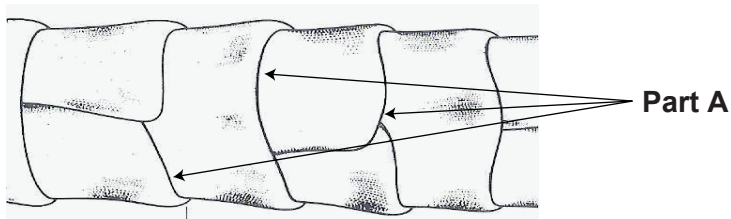
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3

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(3 marks)

- 2** Study the diagram of the fibre shown below.



- 2 (a)** Name the fibre shown.

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(1 mark)

- 2 (b)** Name the parts of the fibre labelled **Part A** on the diagram.

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(1 mark)

- 2 (c)** Explain in detail how the parts labelled **A** can affect the fibre if it is washed carelessly.

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(3 marks)

5



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(1 mark)

1

2

(2 marks)

1

2

(2 marks)

(3 marks)

- 6 Give **two** reasons for the choice of *overlocking* as a method to prevent the seams of a shirt from fraying.

1

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2

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(2 marks)

2

- 7 (a) Name the fabric construction method shown in the two stages of manufacture below.

Stage 1 Uncut



Stage 2 Cut



Weft

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(1 mark)

- 7 (b) Name **one** fabric made using the construction method shown above.

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(1 mark)

2



Section B

Answer **either** Question 8 **or** Question 9.

- 8** A manufacturer of novelty textile products is designing a range of holders for mobile phones, MP3 players and other small portable electronic equipment.

One of the fabrics to be used for these holders is cotton denim.

- 8 (a)** Describe the structure of denim fabric. You may use a diagram.

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(4 marks)

Turn over ►



[illegible]

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1

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2

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Discuss the ethical, social and environmental effects associated with the manufacture of cotton denim fabrics.

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

20

Do **not** answer Question 9 if you have answered Question 8

9 Modern fabrics and finishes are used for a variety of textile products and applications.

9 (a) Explain **two** different uses of textile materials in modern cars. Give reasons for their use.

Use 1

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Use 2

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(6 marks)



[illegible]

Question 9 continues on the next page

[illegible]

20



Section C

Answer this question.

10

Study the fashion products shown below.
They form part of a retailer's spring/summer collection.



Striped boucle blazer with gold button detail.
74% Cotton, 15% Acrylic, 11% Polyester.
Dry clean only.



Striped boucle shorts with gold buttons.
74% Cotton, 15% Acrylic, 11% Polyester.
Machine washable.

10 (a)

Analyse the ways in which the designer of the garments has created interest with the striped fabric.

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*(3 marks)***Question 10 continues on the next page****Turn over ►**

[illegible]

(8 marks)



- 10 (c)** Explain the reasons for the different care advice given for the blazer and the shorts shown on page 11.

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(2 marks)

- 10 (d)** The garments shown on page 11 represent one of the latest fashions for the new season.
Describe the ways in which a designer can find out information about the latest trends.

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(6 marks)

Question 10 continues on the next page

Turn over ►



[illegible]

(6 marks)



Explain the problems which are associated with the cutting and sewing of striped fabrics. Describe some of the ways these problems can be overcome.

[illegible]

Turn over ►



Explain the main issues which the manufacturer will need to take into account to ensure the safety of the workforce who make the garments shown on page 11.

[illegible]

40

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