



General Certificate of Education  
Advanced Level Examination  
June 2010

# Design and Technology: Product Design (Textiles)

## TEXT3

### Unit 3 Design and Manufacture

Wednesday 16 June 2010 1.30 pm to 3.30 pm

**For this paper you must have:**

- an AQA 8-page unlined answer book which is provided separately
- normal writing and drawing instruments.

**Time allowed**

- 2 hours

**Instructions**

- Use black ink or black ball-point pen. Use pencil and coloured pencils only for drawing.
- Write the information required on the front of your answer book. The **Examining Body** for this paper is AQA. The **Paper Reference** is TEXT3.
- Answer **three** questions.
- Answer **one** question from each of Sections 1 and 2, and **one** other question from either section.

**Information**

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 84.
- You will be marked on your ability to:
  - use good English
  - organise information clearly
  - use specialist vocabulary where appropriate.

**Advice**

- Illustrate your answers with sketches and/or diagrams wherever you feel it is appropriate.

Answer **three** questions.

Answer **one** question from each of Sections 1 and 2 and **one** other question from either Section 3 or 4.

### Section 1

#### Question 1

Textile marketing places great importance on the corporate identity, labelling and packaging of products.

- 0 1** Explain in detail the unique corporate identity of **one** textile brand with which you are familiar. (6 marks)
- 0 2** In what ways are changing moral and environmental attitudes affecting the labelling and packaging of textile products? (8 marks)
- 0 3** Critically evaluate the different methods of advertising available to textile retailers. (8 marks)
- 0 4** In what way has modern technology assisted in the marketing and promotion of textile products? (6 marks)

#### Question 2

The following textile products are all considered to be *icons* of textile product design:

the Mini skirt,  
the 2.55 quilted chain bag,  
the Mondrian dress,  
the Harem pant,  
the Capri pant.

Select **one** product from the list above.

- 0 5** Describe this product through the use of illustration and annotation. It is important to include key style and design features. (8 marks)
- 0 6** Name the original designer of this product. (1 mark)
- 0 7** Explain the importance and ongoing influence of this product in fashion history. (9 marks)
- 0 8** Name a further iconic textile product that is not listed above. (1 mark)
- 0 9** Name the person who designed the product you have named in part **0 8**. (1 mark)
- 1 0** Explain why you consider the product you have named in part **0 8** to be iconic. (8 marks)

**Question 3**

Designers and manufacturers of textiles products have been inspired by traditional ethnic and cultural patterns and fabrics for many years.

- 1 1** Fabric pattern can be created through its construction and application of colour. Describe **one** fabric which uses a traditional ethnic construction method. (4 marks)
- 1 2** Explain **one** traditional ethnic method of applying surface pattern and colour to a fabric. (4 marks)
- 1 3** Describe how designers can incorporate traditional ethnic and cultural influences into their textile products.
- You may use sketches to illustrate your answer. (12 marks)
- 1 4** Ethical trading is becoming increasingly important in the global market place. Discuss the issues facing major retailers in relation to consumer demand for ethical trading. (8 marks)

**Turn over for the next question**

**Turn over ▶**

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**Section 2**

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**Question 4**

Components can be incorporated into textile products for both functional and aesthetic purposes.

**1 5** Name a different type of zip fastener suitable for each of the following products:

- a child's anorak
- a ladies pencil skirt
- a scatter cushion.

(3 x 1 mark)

**1 6** Select **one** of the products listed in part **1 5** above. Give a detailed outline of the manufacturing processes required when inserting the zip fastener you have named.

Include reference to the equipment used.

(8 marks)

**1 7** Name an alternative fastening that could also be used for the product you have chosen in part **1 6**.

(1 mark)

**1 8** Describe the manufacturing processes involved when applying the named fastening. Include reference to any equipment used.

(8 marks)

**1 9** Outline some of the possible problems a manufacturer may experience when working with a wide range of components during the manufacture of textile products. (8 marks)

**Question 5**

**2 0** *Fully fashioned, whole garment and cut and sew* are different methods used in the manufacture of knitwear.

Explain the differences between each of these manufacturing terms.

(3 x 3 marks)

**2 1** Outline the difficulties that a manufacturer faces when working with knitted fabrics. Suggest some of the solutions used to overcome these difficulties.

(7 marks)

**2 2** Embellishment on textile products can enhance and add to their appeal. Name **two** different techniques used for surface embellishment.

(2 marks)

**2 3** For each of the **two** techniques you named in **2 2** explain fully all the processes used to create the embellishment.

(2 x 5 marks)

**Question 6****2 | 4**

For **each** of the fibre groups below you should state which of the following dye types is appropriate.

Dye Type: Direct  
 Reactive  
 Vat  
 Disperse  
 Acid

	<b>Fibre Group</b>
<b>A</b>	Cellulosic (cotton, linen, viscose) Protein (wool), and Nylon
<b>B</b>	Synthetics (polyester, acrylic, nylon), and acetate
<b>C</b>	Cellulosic (cotton, linen, viscose), and Protein (wool and silk)
<b>D</b>	Protein (wool), Nylon and Elastomerics
<b>E</b>	Cellulosics (cotton, linen, viscose)

*(5 marks)***2 | 5**

Colour has to be fast to meet agreed standards.

Give a brief explanation of the factors that could affect colour fastness in textile products.  
*(5 marks)*

**2 | 6**

Printing inks and dyes are being developed to offer new creative and functional opportunities.

Explain the meaning of **two** of the following printing media. Give specific examples of their application.

- Luminescent
- Fluorescent
- Phosphorescent
- Thermochromic

*(2 × 5 marks)***2 | 7**

Explain what the following methods of printing are and explain why they are used in the development of prototype textile products:

- sublimation (transfer) printing
- digital printing.

*(8 marks)***END OF QUESTIONS**

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