



General Certificate of Education  
Advanced Level Examination  
June 2011

# Design and Technology: Product Design (Textiles)

## TEXT3

Unit 3 Design and Manufacture

Thursday 23 June 2011 1.30 pm to 3.30 pm

**For this paper you must have:**

- an AQA 12-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.
- Do all rough work in your answer book. Cross through any work that you do not want to be marked.

**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.

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Answer **three** questions.

Answer **one** question from each of Sections 1 and 2 and **one** other question from either section.

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### Section 1

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#### Question 1

**0 1** Micro-encapsulated fabrics are the result of new technological developments.

Using a range of different examples to illustrate your answer, explain what is meant by the term micro encapsulation. (7 marks)

**0 2** Other modern developments in textiles have enabled improvements in performance sportswear.

Describe **three** different modern developments in textile performance sportswear. Explain the advantages that each has brought to the performance sportswear market. (3 x 7 marks)

#### Question 2

**0 3** Select a decade from the 20<sup>th</sup> century.

Making reference to key designers and fashion and textile products, explain why you consider the decade you have selected to have been important. (16 marks)

**0 4** Select a different decade to the one you chose in part **0 3**.

Describe the textile products created by **one** influential designer during this period. (12 marks)

#### Question 3

**0 5** Within textile retail organisations there are different roles for professionals other than that of designer.

Explain three of these roles and outline the key functions of each. (8 marks)

**0 6** Explain the risks for a retailer of buying clothing considered to be *fashionable*. (6 marks)

**0 7** Outline the issues that you think a buyer of textile furnishings would need to consider when selecting a new product range. (6 marks)

**0 8** Outline the constraints within which a designer of textile furnishings may have to work. (8 marks)

## Section 2

## Question 4

0 9

The shirt featured in **Figure 1** is considered to be a 'classic shirt'.

The pattern pieces to construct this shirt are shown in **Figure 2**.

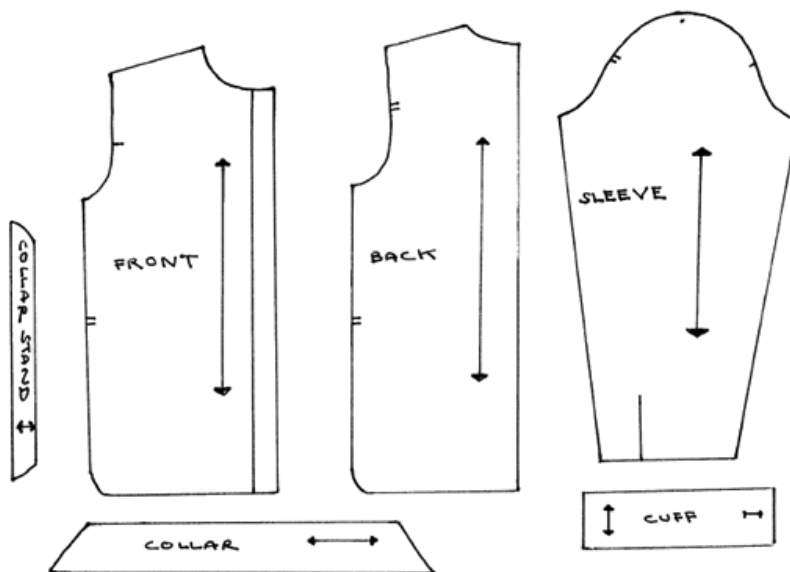
Using notes and sketches illustrate **two** different styles of fashion shirt that could be developed from the classic shirt shown in **Figure 1**.

In each case, clearly show the adaptations that would be made to the pattern pieces in **Figure 2**.  
(2 x 5 marks)

Figure 1



Figure 2



Question 4 continues on the next page

Turn over ►

- 1 0** What would need to be considered when manufacturing a shirt made from silk chiffon, organza or a similar translucent fabric? (5 marks)
- 1 1** Sketch the care label you would recommend for a shirt made from 100% silk chiffon. Explain how the care advice you have recommended relates to the fabric. (5 marks)
- 1 2** Describe **one** manufacturing system suitable for the production of a fashion shirt. Explain why it is a suitable system for this type of product. (8 marks)

### Question 5

- 1 3** What is the role of the HSE? (4 marks)
- 1 4** Outline the health and safety issues a manufacturer would need to consider when planning the manufacture of a small child's sleepsuit or 'babygro'. Include in your response issues related to the legal responsibilities of both employers and employees. (12 marks)
- 1 5** With reference to specific textile products, explain how safety standards are used to protect the consumer. (12 marks)

### Question 6

- 1 6** Select **two** of the following *novelty yarns*:
- slub
  - bourette
  - bouclé
  - chenille
- Explain how each of the yarns you have chosen is produced. (2 x 3 marks)
- 1 7** Describe **two** different processes used to produce bulked or stretched textured *yarns* from synthetic fibres. (2 x 4 marks)
- 1 8** Textured *fabrics* can be produced by various finishing processes.
- Explain the finishing processes that could be applied to *fabrics* to create different textures. (14 marks)

**END OF QUESTIONS**