



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.

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.

- | | |
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| 1 | 1 |
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 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 |
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 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 |
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 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 ►

Section 2

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

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