

## A-level

# DESIGN AND TECHNOLOGY: PRODUCT DESIGN (TEXTILES)

Unit 3 Design and Manufacture

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Friday 10 June 2016

Morning

Time allowed: 2 hours

### Materials

For this paper you must have:

- an AQA 12-page unlined answer book, which is provided separately
- an insert sheet (provided)
- normal writing and drawing instruments.

### 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.
- If you choose to answer a question which has several parts, you should answer **all** parts of this question.
- Do all rough work in your answer book. Cross through any work you do not want to be marked.

### Information

- The marks for the 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.

For each question that you answer, you should answer **all** parts of that question.

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### Section 1

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#### Question 1

0	1
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Women's clothing has often had a masculine appearance.

Describe the fashions of **two** different periods, since 1900, when masculine style fashions were popular for women.

Explain the reasons for **each** of these fashions.

Illustrate your answer wherever possible.

[2 x 14 marks]

#### Question 2

0	2
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Designers often use past styles as inspiration for new fashions.

Discuss how **two** different historical textile products have been used in the last 50 years to produce new ideas for fashion garments or textiles for the home.

[6 marks]

0	3
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New developments in textile materials are also used when developing new fashion products.

Describe **two** recent technological developments in textile materials. Explain how each one can be used to make exciting new fashions.

[8 marks]

0	4
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Many designers use catwalk shows to promote their new fashions.

Evaluate the catwalk as a method of promoting fashion products.

[6 marks]

0	5
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A corporate identity is often used to promote fashion brands.

Discuss the importance of a corporate identity.

Give examples to illustrate your answer.

[8 marks]

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**Question 3**

0	6
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A product life cycle analyses all the stages in the development, use, production, distribution and disposal of a fashion product to see how it will affect the environment.

Choose **four** of the following areas of a fashion product life cycle:

- the selection and sourcing of fabrics and components
- the processing of the fabrics during their manufacture
- the design and manufacture of the product
- the packaging and distribution of the finished product
- the way that the consumer uses and cares for the product
- the disposal of the product at the end of its life.

For each area you have chosen discuss the issues that are likely to affect the environment and suggest ways that the impact might be reduced.

Give specific examples to support the points you make.

**[4 x 7 marks]**

**Turn over for Section 2**

**Turn over ►**

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**Section 2**

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**Question 4**

- 0 7** Explain how the work of the British Standards Institute (BSI) makes sure that textile furnishing products are fit for purpose. **[5 marks]**
- 0 8** Explain **three** different qualities that will be needed in a fabric to be used for sofa cushions. **[6 marks]**
- 0 9** Describe **one** test that might be used in industry to test fabric for sofa cushions. **[5 marks]**
- 1 0** Critically evaluate the choice of zips or buttons for fastening cushions. **[6 marks]**
- 1 1** Describe the steps used to prepare, apply and quality check the application of a button fastening to a cushion. **[6 marks]**

**Question 5**

- 1 2** The physical shape of a fibre can have an important effect on its properties.
- Describe the shape of **each** of the following fibres. Explain how the shape affects the fibre properties when used for garments. You may use diagrams.
- Silk
  - Wool
  - Cotton
  - Viscose
- [4 x 4 marks]**
- 1 3** Synthetic fibres, such as polyester and nylon, are produced as continuous filament and have a very smooth surface.
- Explain how this affects the fabrics made from them. **[4 marks]**

1	4
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Explain **one** way that synthetic fibres can be engineered to make them more acceptable to consumers.

[2 marks]

1	5
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Inorganic fibres, such as ceramic and carbon fibres, are used for specialist applications.

Give **two** different uses for inorganic fibres. Explain why they are suited to the uses you have given.

[2 x 3 marks]

### Question 6

1	6
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A manufacturer is planning a new range of luxury women's nightwear for sale in a limited number of outlets.

Explain how the style of the garments and choice of fabrics and trimmings might make the garments **luxurious**.

[4 marks]

1	7
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Use the bodice blocks (**Figure 1**) on the insert sheet to show how you would make the pattern templates for the nightdress shown in **Figures 2** and **3**. Include the pattern markings.

[8 marks]

1	8
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The following processes have been used in the production of a nightdress:

- sew a French seam
- make a hem with lace trimming attached
- add a reverse appliqué decoration
- put a binding around an armhole edge
- make a pin tucked panel
- make a spaghetti strap.

Use step by step instructions to explain how to carry out **four** of the processes.

You may use diagrams.

[4 x 4 marks]

**END OF QUESTIONS**

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