

General Certificate of Education
June 2005
Advanced Level Examination



**DESIGN AND TECHNOLOGY: PRODUCT DESIGN PD6T
(TEXTILES)
Unit 6 Written Paper**

Friday 17 June 2005 1.30 pm to 4.30 pm

In addition to this paper you will require:

- an unlined answer book (7024) which is provided separately;
- normal writing and drawing instruments.

Time allowed: 3 hours

Instructions

- Use blue or black ink or ball-point pen. Pencil and coloured pencils should only be used 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 PD6T.
- **Answer one question from each of Sections A, B and C and one other question from any section.**

Information

- The maximum mark for this paper is 100.
- 24 marks are allocated to each question and 4 marks overall are allocated for quality of written communication.
- Mark allocations are shown in brackets.
- This paper carries 20 per cent of the total marks for Advanced Level.
- You are reminded of the need for good English and clear presentation. The quality of your written communication will be assessed across all questions.

Advice

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

Answer **one** question from **each** of the three sections and **one** other question from any section.

SECTION A
Materials and Components

- 1** Many designs, patterns and special effects can be ‘engineered’ into fabrics during production.

Describe in detail how **four** *different* and distinctive patterned fabrics have been created through construction methods rather than through printing or finishing techniques.

In each case suggest applications for the use of these fabrics. *(4 × 6 marks)*

- 2** In the technological development of new textile products, including new fibres and fabrics, nature has proved a source of inspiration and has in many cases been imitated.

Give detailed descriptions of **three** recent textile developments that have imitated nature. *(3 × 8 marks)*

SECTION B**Design and Market Influences**

3 Many textiles products can be considered design icons of their time.

Choose **two** of the following categories and identify **one** specific product from each category.

Printed textiles

Accessories

Furnishings

Fashion separates

For **each** product, explain why it can be regarded as an icon of design and how it reflects the time in which it was created. *(2 × 12 marks)*

4 Marketing can be very important when planning a range of products.

(a) What elements of the marketing function would the textiles industry need to take into consideration when planning a new range of products? *(16 marks)*

(b) What constraints might affect retail buying decisions? *(8 marks)*

TURN OVER FOR SECTION C

Turn over ►

SECTION C**Processes and Manufacture**

- 5 Describe some of the modern production facilities and manufacturing systems which enable textile manufacturers to respond quickly to change. *(24 marks)*
- 6 (a) Describe **three different** industrial methods of dyeing yarn and/or fabric. *(3 × 4 marks)*
- (b) What practices could a dye house implement when addressing environmental issues? *(6 marks)*
- (c) Explain why colour fastness is important to the consumer.
What labelling could be provided to assist care and maintenance? *(6 marks)*

END OF QUESTIONS