

General Certificate of Education
June 2006
Advanced Level Examination



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

Friday 16 June 2006 9.00 am to 12 noon

For this paper you must have:

- 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. 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 PD6T.
- Answer **four** questions.
- 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.
4 of these marks are for the Quality of Written Communication.
- There are 24 marks for each question.
- The marks for questions are shown in brackets.
- You are reminded of the need for good English and clear presentation in your answers. Quality of Written Communication will be assessed in all answers.

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 (a) Answer **one** of the following questions.

- (i) Describe **two** fabrics which have been made by different knitting methods.
- (ii) Describe **two** fabrics which have been made by different woven methods.
- (iii) Describe **two** fabrics which have been made by different non-woven methods.

In your answer you should make reference to the construction, appearance and physical properties of the fabrics. (2 × 8 marks)

(b) Explain how new technology has changed the manufacturing methods of **either** knitted **or** woven **or** non-woven fabrics. (8 marks)

2 (a) Name **four** different *modern* finishes that can be applied during yarn or fabric production. (4 marks)

(b) Describe how each of these finishes is applied and explain what advantages these finishes will bring to the consumer.
In your answer you should make reference to any special care and maintenance that may be required as a result of the specific finish applied. (4 × 5 marks)

SECTION B**Design and Market Influences**

- 3 Nature has been a source of design inspiration throughout the 19th and 20th centuries.

Describe **three different** textile products inspired by nature. Explain how the designer has used nature in the design of **each** of these textile products. *(3 × 8 marks)*

- 4 Discuss how moral, ethical, social and political influences can place constraints on designers when developing commercial textile products.

In your answer you should make reference to different examples where designers have taken these influences into account when developing commercial textile products. *(24 marks)*

Turn over for Section C

Turn over ▶

SECTION C**Processes and Manufacture**

- 5 Bespoke, one-off and couture garments are produced in different ways from mass manufactured clothing.

Select **one** textile product made as a one-off and a **second** textile product made by a mass manufacturing method.

- (a) Compare the different manufacturing processes used to produce a one-off garment and a garment made by mass manufacture. *(2 × 8 marks)*
- (b) Explain why the processes you have referred to in part (a) are most suitable for **each** method of garment manufacture. *(2 × 4 marks)*
- 6 (a) Explain the purpose and advantages of using pre-manufactured components in the production of textile products. In your answer you should make reference to specific examples. *(6 marks)*
- (b) Explain how the application of ICT to Production Planning and Control can be advantageous to a manufacturer. In your answer you should make reference to specific examples. *(18 marks)*

END OF QUESTIONS