



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education
Advanced Level

DESIGN AND TEXTILES

9631/03

Paper 3 Textile Applications and
Textile Technology

October/November 2011

2 hours

Additional Materials: Answer Booklet/Paper

READ THESE INSTRUCTIONS FIRST

If you have been given an Answer Booklet, follow the instructions on the front cover of the Booklet.

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a pencil for any diagrams or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

Answer **four** questions in total.

Section A

Answer **both** questions.

Section B

Answer **two** questions.

Illustrate your answers with clear, well-spaced diagrams.

You may, if you wish, use the silhouette on page 4 to produce outlines for your sketches. Place the silhouette under a single sheet of script paper and trace the outline in pencil.

At the end of the examination, fasten all your work securely together.

The number of marks is given in brackets [] at the end of each question or part question.

This document consists of **4** printed pages.



Section A

Answer **both** questions.

1 Designing suitable clothing for children is important.

- (a) Explain **four** factors which need to be considered when choosing fabrics for children's clothing. [4]
- (b) Describe **three** fabric finishes which would improve the performance characteristics of fabrics used for children's wear. [6]
- (c) Sketch an outfit for a young child and explain how the following have been considered:
- (i) colour; [3]
 - (ii) fabric(s); [4]
 - (iii) safety; [3]
 - (iv) construction techniques. [5]

[Total: 25]

2 Creative techniques are frequently used to embellish textile items.

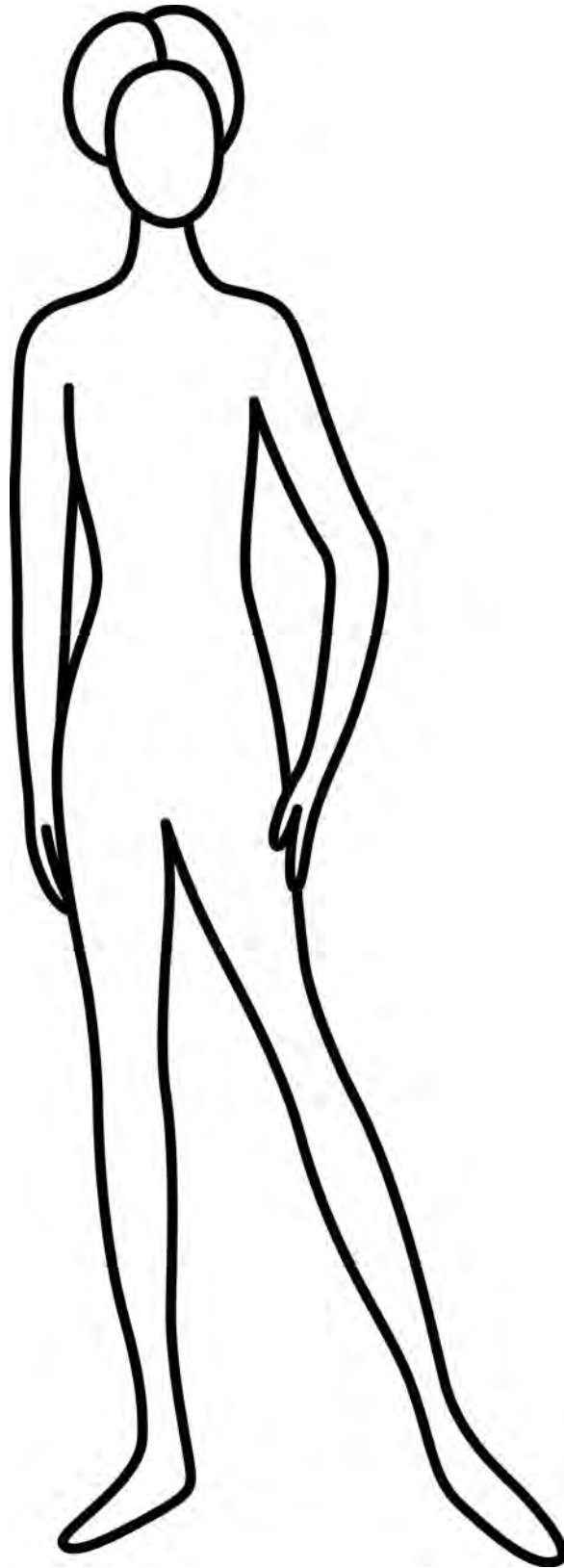
- (a) Sketch a design for a wall panel/hanging, and show **two** ways of applying or painting colour onto fabric in an interesting way. Label clearly. [4]
- (b) Choose a suitable fabric for your design in (a) and explain, using labelled sketches, how to:
- (i) apply **one** of the colour techniques in (a); [6]
 - (ii) use surface decoration to further embellish the wall panel/hanging. [4]
- (c) Produce an estimated cost for textile materials, components and notions needed for the wall panel/hanging. [6]
- (d) Assess the risks and safety issues involved in the use of dyeing and printing equipment. [5]

[Total: 25]

Section B

Answer **two** questions.

- 3** Yarns are used on their own or as part of woven and knitted fabrics.
- (a) Explain the difference between staple fibre yarns and filament fibre yarns, giving examples of fibres used in **each** case. [4]
- (b) Compare the following performance characteristics of staple fibre yarns with filament yarns.
- (i) absorbency; [2]
- (ii) warmth; [2]
- (iii) lustre. [2]
- (c) Assess the range of textured synthetic filament yarns available for fabric production. [6]
- (d) Discuss ways in which woven fabrics can be made more interesting with the use of speciality or decorative yarns. [9]
- [Total: 25]**
- 4** The selection of appropriate materials for making textile items needs to be considered carefully.
- (a) (i) Sketch **one** garment which has been decorated using either appliqué **or** quilting. Label the style features on the garment. [5]
- (ii) State **five** reasons for the choice of fabrics for the garment in (a) (i). [5]
- (iii) Write a detailed design specification for the garment in (a) (i). [10]
- (b) Discuss the benefits to a manufacturer of having detailed written design specifications for textile items. [5]
- [Total: 25]**
- 5** Shaping is often used in garment construction.
- (a) Explain **three** reasons for using 'shaping' in garment construction. [3]
- (b) (i) Sketch **five** ways of shaping dresses. Label clearly. [5]
- (ii) Choose **two** of the sketches in (b) and explain the stages in working the shaping techniques. Include labelled sketches. [10]
- (c) Discuss some of the environmental issues related to the textile industry, with particular reference to pollution. [7]
- [Total: 25]**



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