



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
General Certificate of Education Advanced Subsidiary Level and Advanced Level

DESIGN AND TEXTILES

9631/03

Paper 3 Textile Applications
Textile Technology

October/November 2009

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 Fitness for purpose is important in the design of specialist clothing.
- (a) Outline **four** factors which need to be considered when designing clothing for sportswear. [4]
 - (b) (i) Describe **four** fabric finishes which could be used to enhance the performance characteristics of fabrics for sportswear. [4]
 - (ii) Assess the effectiveness of **each** fabric finish listed in (i). [4]
 - (c) Explain the importance of having a detailed design specification for the manufacture of sportswear items. Give specific examples. [5]
 - (d) Assess the types of **stitches** and **joins** which could be used in the production of sportswear. [8]
- [Total: 25]**

- 2 There is a wide choice of creative textile techniques.
- (a) Compare **four** differences between embroidery carried out
 - (i) by hand
 - (ii) using the sewing machine. [4]
 - (b) Explain how the use of different yarns/threads can add variety to hand embroidery. [5]
 - (c) Assess the ways in which free machine stitching can be used to produce interesting surfaces, illustrating your answer with specific examples. [8]
 - (d) Discuss how textile techniques from different cultures can be used to decorate fashion items. [8]
- [Total: 25]**

SECTION B

Answer **two** questions.

- 3 Colour can be used to add interest to designs and textiles.
- (a) Outline the theory of colour and colour mixing, to include primary, secondary and tertiary colours. [4]
- (b) (i) Design a bag which uses primary and secondary colours in an interesting way. Show the front view and label four design features. Label clearly. [4]
- (ii) Explain why the colour scheme chosen in (i) would make the bag attractive to the consumer. [2]
- (c) Assess the effectiveness of the following in producing various colour effects, when dyeing fibres, yarns and fabrics:
- (i) natural dyestuffs
- (ii) synthetic dyes. [15]

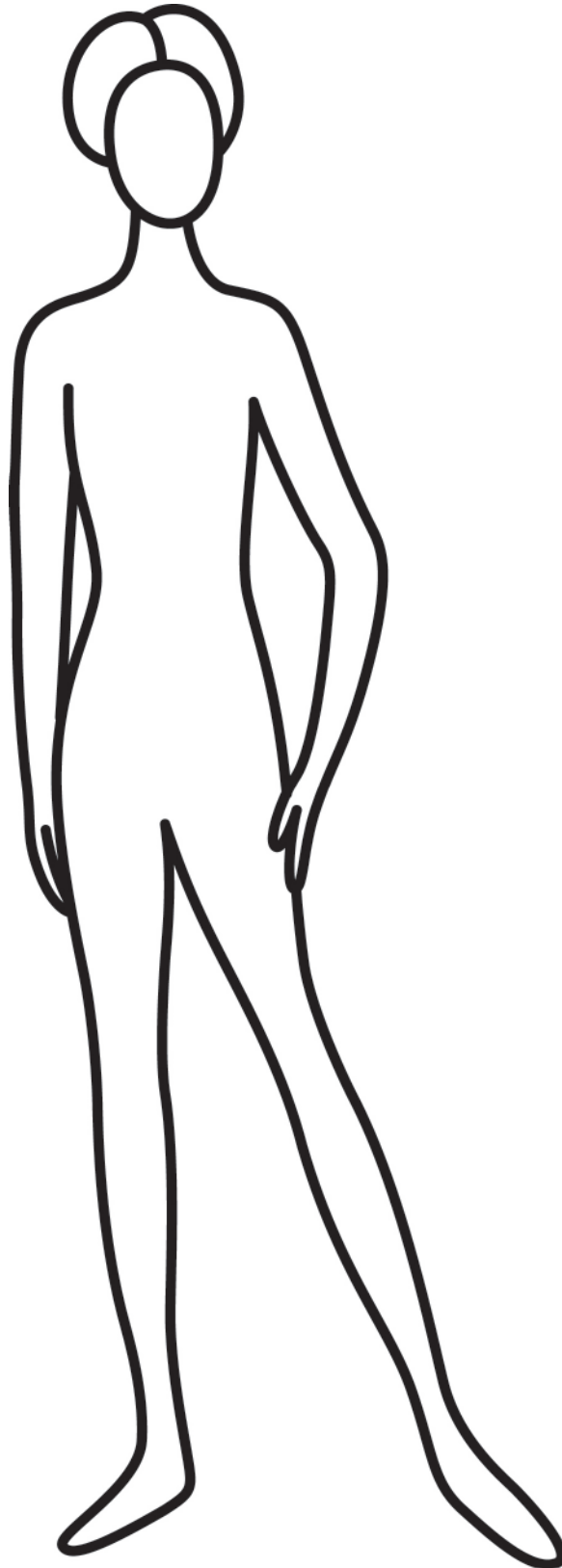
[Total: 25]

- 4 (a) Discuss the choice and range of trimmings and additional materials available (other than fabric) to enhance the quality of finished textile products. [10]
- (b) Assess the ways in which textiles can be recycled, to produce new items. Illustrate your answer with specific examples. [15]

[Total: 25]

- 5 A clothing company plans to manufacture a batch of women's jackets.
- (a) Explain what is meant by the following and outline the importance of **each** to the clothing company:
- (i) market research
- (ii) making and testing a prototype. [10]
- (b) Assess some of the factors which need to be considered when selecting fabrics for the women's jackets. [7]
- (c) Assess the value of using labelling for garments, including the ITCLC Care Labelling system. [8]

[Total: 25]



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