



Cambridge International AS & A Level

DESIGN & TEXTILES

9631/01

Paper 1 Fibres, Fabrics and Design

October/November 2020

2 hours



You must answer on the enclosed answer booklet.

You will need: Answer booklet (enclosed)

INSTRUCTIONS

- Answer **three** questions in total:
 - Section A: answer **both** questions.
 - Section B: answer **one** question.
- Follow the instructions on the front cover of the answer booklet. If you need additional answer paper, ask the invigilator for a continuation booklet.
- You should illustrate your answers with clear, bold diagrams.
- Use Figure 1 on page 4 to produce outlines for your sketches. Place the figure under a sheet of paper in the answer booklet and trace the outline in pencil.

INFORMATION

- The total mark for this paper is 75.
- The number of marks for each question or part question is shown in brackets [].

This document has 4 pages. Blank pages are indicated.

Section AAnswer **both** questions

- 1 (a) (i) Identify **one** protein fibre and state its origin. [2]
- (ii) Identify **one** regenerated fibre and state its origin. [2]
- (b) Compare the following characteristics of the **fibres** chosen in **1(a)(i)** and **(ii)**:
- (i) flammability, [2]
- (ii) fibre length, [2]
- (iii) elastic recovery. [2]
- (c) Explain why fabrics made from regenerated fibres are often used in the manufacture of fashion garments. Give examples of named fibres in your answer. [7]
- (d) Discuss the advantages of new developments in fibre and fabric technology. Give named examples of materials in your answer. [8]

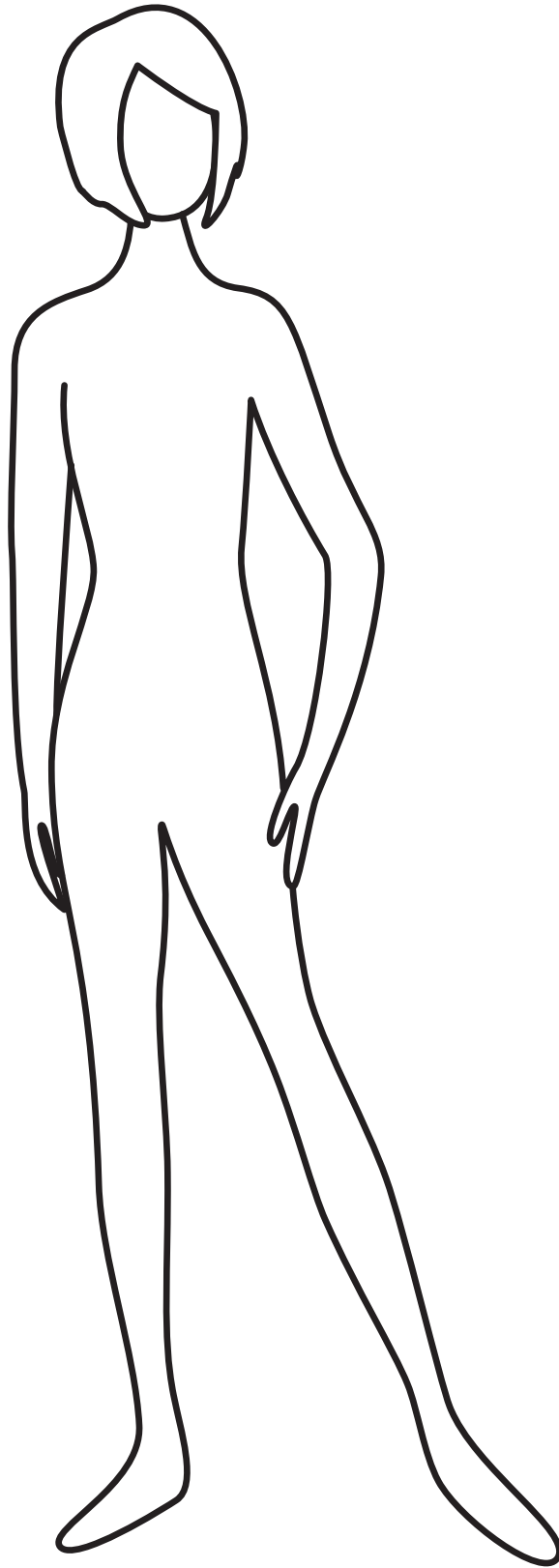
[Total: 25]

- 2 (a) Describe how the following fabrics are constructed. You may use labelled diagrams to support your answer.
- (i) needle-punched fabrics, [4]
- (ii) woven terry towelling fabrics. [4]
- (b) Discuss the uses of non-woven fabrics. Give examples to support your answer. [7]
- (c) Discuss the performance characteristics of the following fabrics in relation to their end uses:
- (i) woven terry towelling,
- (ii) knitted tricot. [10]

[Total: 25]

Section BAnswer **one** question

- 3 (a) Explain what is meant by the following in relation to garment design:
- (i) shape, [2]
 - (ii) balance, [2]
 - (iii) texture. [2]
- (b) (i) Sketch and label **one** design for a lady's shirt to show how shape, balance and texture can be used together in garment design. [4]
- (ii) Explain **three** ways in which the **texture** shown on your design for a lady's shirt in **3(b)(i)** could be developed. [6]
- (c) Evaluate the use of Computer Aided Design (CAD) to help create design ideas. [9]
- [Total: 25]**
- 4 (a) Define the term *one-off production* in clothing manufacture. [2]
- (b) Explain why the following production methods are used:
- (i) mass production for socks, [3]
 - (ii) batch production for fashionable dresses. [3]
- (c) Contrast the different stages involved from creating an initial pattern to cutting out the fabric in *one-off production* and in *batch production*. [10]
- (d) Compare the industrial methods of pressing garments. [7]
- [Total: 25]**



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