

DESIGN AND TEXTILES

9631/01

Paper 1 Fibres, Fabrics and Design

October/November 2017

2 hours

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

An answer booklet is provided inside this question paper. You should follow the instructions on the front cover of the answer booklet. If you need additional answer paper ask the invigilator for a continuation booklet.

Answer **three** questions in total.**Section A**Answer **both** questions.**Section B**Answer **one** question.

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 sheet of paper in the answer booklet and trace the outline in pencil.

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

This document consists of 4 printed pages and 1 Insert.

Section A

Answer **both** questions.

1 Natural fibres are widely used in textiles items.

(a) State the origin of the following fibres and how they are obtained:

(i) wool fibres [2]

(ii) wild silk fibres [2]

(iii) jute fibres [2]

(b) Draw and label diagrams to show the microscopic views of:

(i) a wool fibre [2]

(ii) a wild silk fibre [2]

(c) Compare the **absorbency** and **extensibility** of cotton and wool fibres. [6]

(d) Discuss the advantages for clothing of using fabrics made from cotton fibres, rather than synthetic fibres. [9]

[Total 25 marks]

2 Non-woven fabrics are becoming more widely used.

(a) (i) State **one** natural fibre and name **one** non-woven fabric made from this fibre. [2]

(ii) State **one** synthetic fibre and name **one** non-woven fabric made from this fibre. [2]

(b) Explain how fabrics are made using the following processes:

(i) needle-punching [3]

(ii) stitch bonding [3]

(iii) thermo bonding [3]

(iv) felting [3]

(c) Assess the suitability of regenerated cellulose fibres/fabrics available for clothing use. Give specific examples in your answer. [9]

[Total 25 marks]

Section B

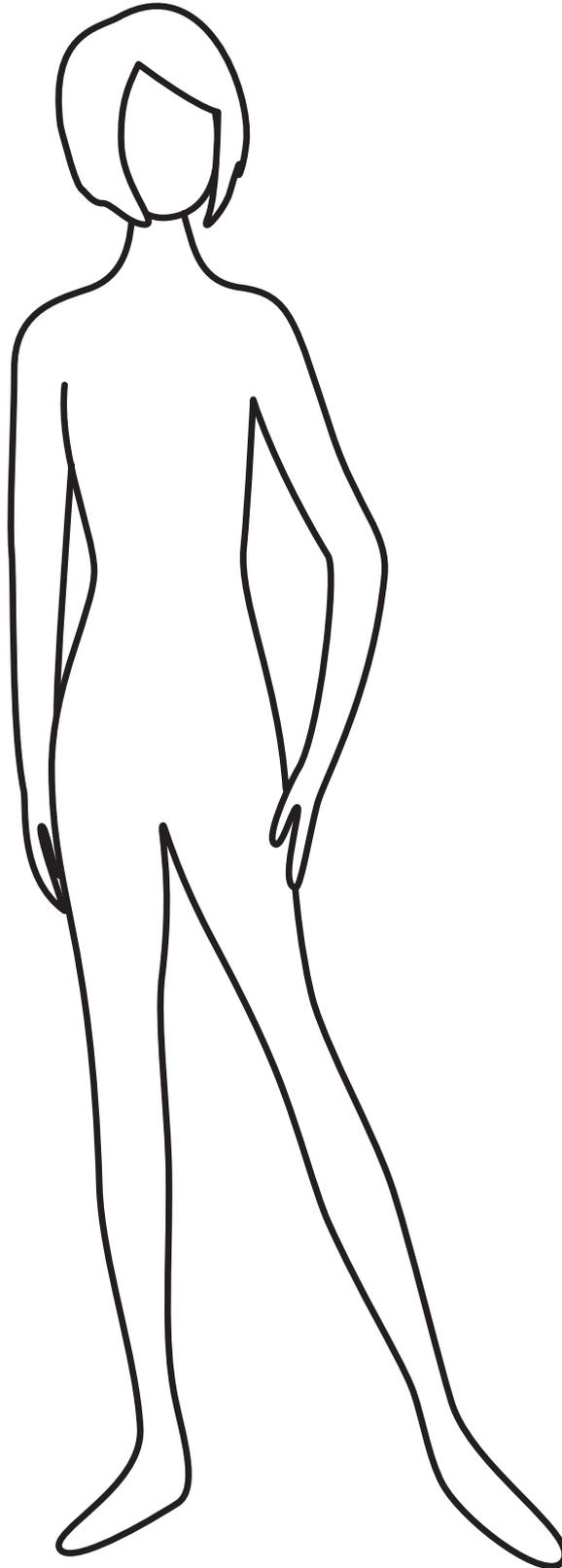
Answer **one** question.

- 3** The design of fashion items varies according to fashion trends.
- (a)**
- (i)** Sketch and label the front and back views of a fashion top to be worn in the summer. Include **three** style features and name **one** suitable fabric. [5]
 - (ii)** Draw **one** labelled sketch of an idea inspired by an historical source and which could be used as a design on the fashion top in **(a)(i)**. [3]
 - (iii)** Explain how the design in **(a)(ii)** could be made into a repeated design on the fashion top in **(a)(i)**. [2]
- (b)** Explain the factors a manufacturer would need to consider when planning the product assembly of a batch of the fashion top sketched in **(a)**. [7]
- (c)** Discuss how the study of historical sources can provide ideas for designs on current textiles and clothing. Give specific examples in your answer. [8]

[Total 25 marks]

- 4** Different production methods are available to the manufacturer.
- (a)** Explain what is meant by:
- (i)** batch production [2]
 - (ii)** mass production [2]
 - (iii)** one-off (job) production [2]
- (b)** Explain the advantages of producing textile items in batch production. [5]
- (c)** Explain why different methods of lay planning are used for garments made in batch production and one-off (job) production. [6]
- (d)** Discuss the equipment available to a manufacturer and why each would be chosen when making denim jeans. Give specific examples of the equipment in your answer. [8]

[Total 25 marks]



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