

DESIGN AND TEXTILES

9631/01

Paper 1 Fibres, Fabrics and Design

October/November 2015

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 single sheet of script paper 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 and fabrics are widely used in the production of textile items.

(a) State how fibres are obtained from:

(i) cotton plants [1]

(ii) flax plants. [1]

(b) Compare the following characteristics of cotton fibres and flax fibres:

(i) variation of fibre length [2]

(ii) the cross-section as seen under a microscope. [2]

(c) (i) Discuss **four** performance characteristics of **cotton fabrics** that make them suitable for clothing. [8]

(ii) Explain why linen fabrics are not as popular as cotton fabrics for clothing. [3]

(d) Evaluate the range of cotton fabrics that can be used for children's clothing. Name specific examples of cotton fabrics in your answer. [8]

[Total: 25]

2 There is a wide choice of synthetic fibres and fabrics.

(a) Describe the following fibres and, for **each**, give **one** example of its use:

(i) aramid fibre [2]

(ii) elastane fibre. [2]

(b) Compare the performance characteristics of aramid fibre and elastane fibre with reference to:

(i) flammability [2]

(ii) strength [2]

(iii) extensibility. [2]

(c) Using labelled diagrams and notes, name and compare the structure of **one** woven synthetic fabric and **one** weft knitted synthetic fabric. [8]

(d) Discuss the factors which should be considered when choosing whether to use woven fabrics or knitted fabrics for clothing. [7]

[Total: 25]

Section B

Answer **one** question.

3 Bags are a popular fashion accessory.

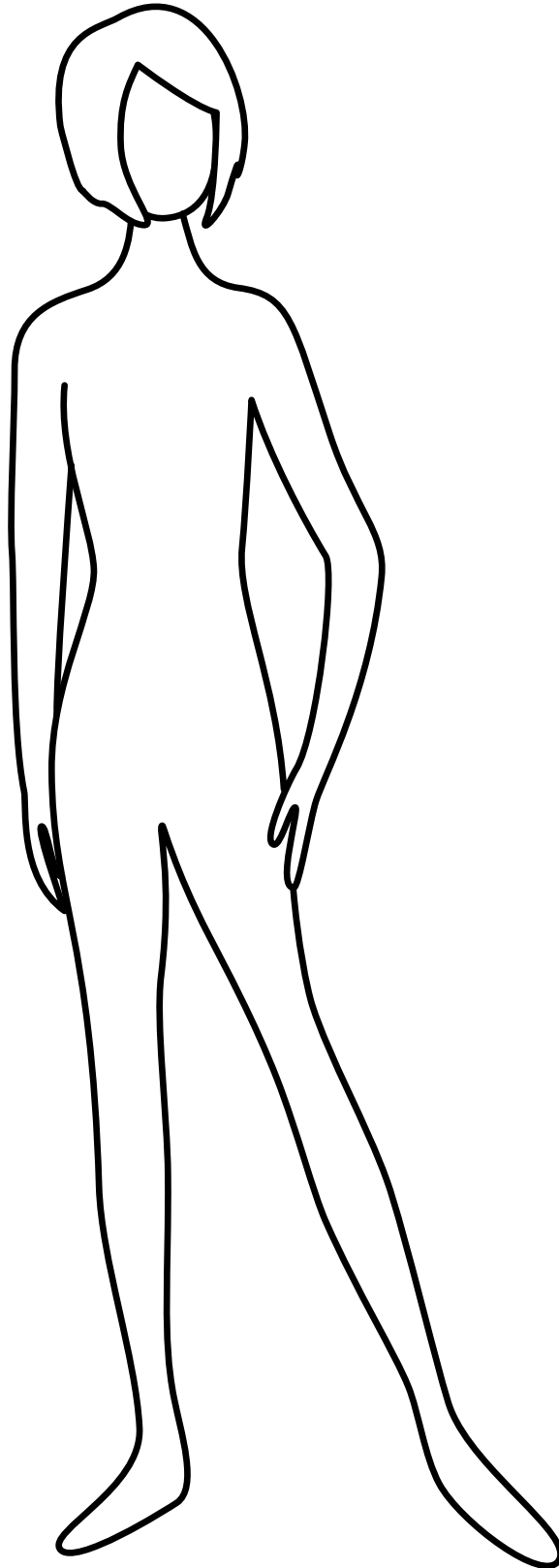
- (a) (i) Draw a design of a fashionable bag suitable for a teenager. Include front **and** back views and show how line and colour can be used in an interesting way. Label your design clearly. [6]
- (ii) Describe **two** different secure closures (fastenings) which would be appropriate for your bag design. [4]
- (iii) Explain how your choice of line and colour have shown good design principles and follow current trends. [6]
- (b) Discuss the advantages for the consumer of there being a wide choice of retail outlets that sell bags. Give examples of types of retail outlets in your answer. [9]

[Total: 25]

4 The manufacture of clothing items depends upon many factors.

- (a) (i) Explain **three** ways of adapting existing patterns/templates. [3]
- (ii) Outline the main stages of producing garment patterns/templates for use in manufacturing. [5]
- (b) Discuss **four** factors which a manufacturer would need to consider when choosing **fused interfacings** for different fabrics. [8]
- (c) Evaluate the range of neckline openings which are available to a manufacturer of ladies' clothing. Give specific examples in your answer. [9]

[Total: 25]



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