



**HIGHER SCHOOL CERTIFICATE EXAMINATION**

**1995**

# **TEXTILES AND DESIGN**

**2/3 UNIT (COMMON)**

*Time allowed—Three hours  
(Plus 5 minutes' reading time)*

**DIRECTIONS TO CANDIDATES**

- This paper is divided into THREE Sections.
- Attempt FOUR questions, AT LEAST ONE question from each Section.  
The FOURTH question may be chosen from ANY Section.
- All questions are of equal value.
- Answer each question in a *separate* Writing Booklet.
- Pages 9 and 10 contain outlines which may be used as a guide when answering questions  
Do NOT hand in these sheets with the Writing Booklets.
- You may ask for extra Writing Booklets if you need them.

**SECTION I—SCIENCE AND TECHNOLOGY****QUESTION 1. Dyeing and Printing**

- (a) Choose and describe a different method of silk-screen printing for *each* of the following:
- (i) 50 000 metres of fabric with a six-colour design for a leading shirt manufacturer;
  - (ii) 50 metres of fabric with a repeat motif in one colour for a manufacturer of children's clothing;
  - (iii) 100 T-shirts with a two-colour advertising slogan.
- (b) Compare and contrast the **THREE** methods in terms of cost and suitability.

**QUESTION 2. Finishing**

Choose **FOUR** of the following fabric properties:

- dimensional stability
- water repellency
- flame resistance
- easy care
- stain resistance.

For *each* of your selections:

- (a) identify **ONE** finish that can achieve the desired effect;
- (b) state **ONE** fibre type to which the finish is applied, and explain why the finishing process is required;
- (c) describe how the finish is applied and why it produces the desired result.

**QUESTION 3. Properties and Performance of Textiles**

<i>Group A</i>	<i>Group B</i>	<i>Group C</i>
<ul style="list-style-type: none"> <li>• socks</li> <li>• doona cover</li> </ul>	<ul style="list-style-type: none"> <li>• blanket</li> <li>• T-shirt</li> </ul>	<ul style="list-style-type: none"> <li>• car-seat cover</li> <li>• business shirt</li> </ul>

Select Group A or B or C.

For the group you have selected:

- (a) identify the performance properties for *each* of the products;
- (b) select a fibre blend for *each* of the products that will give the desired properties, and justify your choices;
- (c) state and illustrate an appropriate fabric structure for *each* of the products, and give reasons for your choices.

**QUESTION 4. Properties and Performance of Textiles**

A sportsgoods company is developing a new range of fabric surfboard covers. The company is testing two different styles:

- a tubular cover with drawstring;
  - a shaped cover with zippered opening.
- (a) List the performance requirements for a surfboard cover.
  - (b) For each cover, choose and describe a different fibre, yarn, and fabric structure. Describe and justify your choices.
  - (c) Name and describe TWO laboratory tests that could be used to assess the suitability of *each* fabric structure.

**SECTION II—TEXTILES AND SOCIETY****QUESTION 5. Culture and Textiles**

*EITHER*

- (a) Discuss how lifestyle and improved communications have led to a changed role for traditional textile crafts in a culture you have studied.

*OR*

- (b) State ONE culture that features a distinctive or traditional form of clothing. Discuss the following:
- (i) the features of the clothing design (labelled sketches may be included);
  - (ii) how the beliefs, traditions, and customs are reflected in the clothing design;
  - (iii) the degree of technological development and the effect this has had on the types of fabrics, decorative techniques, and colours used in the production of the clothing.

**QUESTION 6. History of the Textile Industry***EITHER*

(a) Select ONE of the following:

- knitting
- spinning
- weaving
- dyeing
- printing
- garment manufacture.

(i) Outline the technological changes since the Industrial Revolution that have led to increased production and efficiency in the chosen area.

(ii) Explain how reforms in working conditions are just as necessary today as they were throughout the Industrial Revolution.

*OR*

(b) 'The Industrial Revolution led to the establishment of the factory system.'

Discuss this statement, using relevant textile inventions to illustrate your answer.

**QUESTION 7. The Australian Textile Industry***EITHER*

- (a) The year 2000 Olympic Games will bring a large number of international visitors to Australia.
- (i) How is an event of this size and nature likely to affect the economic growth and employment opportunities within the Australian textile and apparel industry?
  - (ii) In what way could the Australian Government play a part in encouraging Australian textile manufacturers to take advantage of this event?
  - (iii) What marketing strategies could be used to encourage international visitors to purchase Australian textile articles?

*OR*

- (b) The survival and growth of the wool and cotton industries play a vital role in Australia's economy.
- (i) Assess the importance of *either* wool *or* cotton-fibre production to the Australian economy.
  - (ii) Outline how technological developments have influenced the production of *either* wool *or* cotton.
  - (iii) Discuss aspects of *either* the wool industry *or* the cotton industry that have been influenced by environmental concerns.

**SECTION III—DESIGN****QUESTION 8**

For a textile design project that you have worked on through the HSC year:

- (a) state the design brief;
- (b) draw a well-labelled flowchart to show how your project followed the steps of a design process;
- (c) sketch and label your textile project;
- (d) list the functional and aesthetic design features of your project;
- (e) describe methods you used to evaluate how well your project satisfied the original design brief.

**QUESTION 9**

Design brief: A local festival needs a number of banners and flags as part of the street decorations.

- (a) Name the theme of the festival.
- (b) Design a motif that represents the theme of the festival.
- (c) Sketch **THREE** differently shaped banners or flags. Incorporate the motif and indicate colour(s), fabric(s), and decoration technique(s) for each of the banners or flags.
- (d) Describe in detail **TWO** processes you would use to decorate the banners or flags.

**QUESTION 10**

A corporate image is important to companies and business enterprises.

You are to design an outfit suitable for an employee of an Australian tourist-information centre.

The outfit consists of **THREE** items of clothing and **ONE** accessory.

- (a) Sketch the outfit (front and back views). Identify the style features, fabric structures, and fabric colours.
- (b) Explain how the aesthetic aspects of the design make the outfit appropriate for a corporate image.
- (c) Describe the fibre type(s) and fabric structures to be used in the outfit. Give reasons for your choices.
- (d) State the consumer information that should appear on the care label of **ONE** of the items of clothing.

**QUESTION 11**

Design a home-furnishing item to be displayed in the 'recycled creations' section of the local exhibition centre.

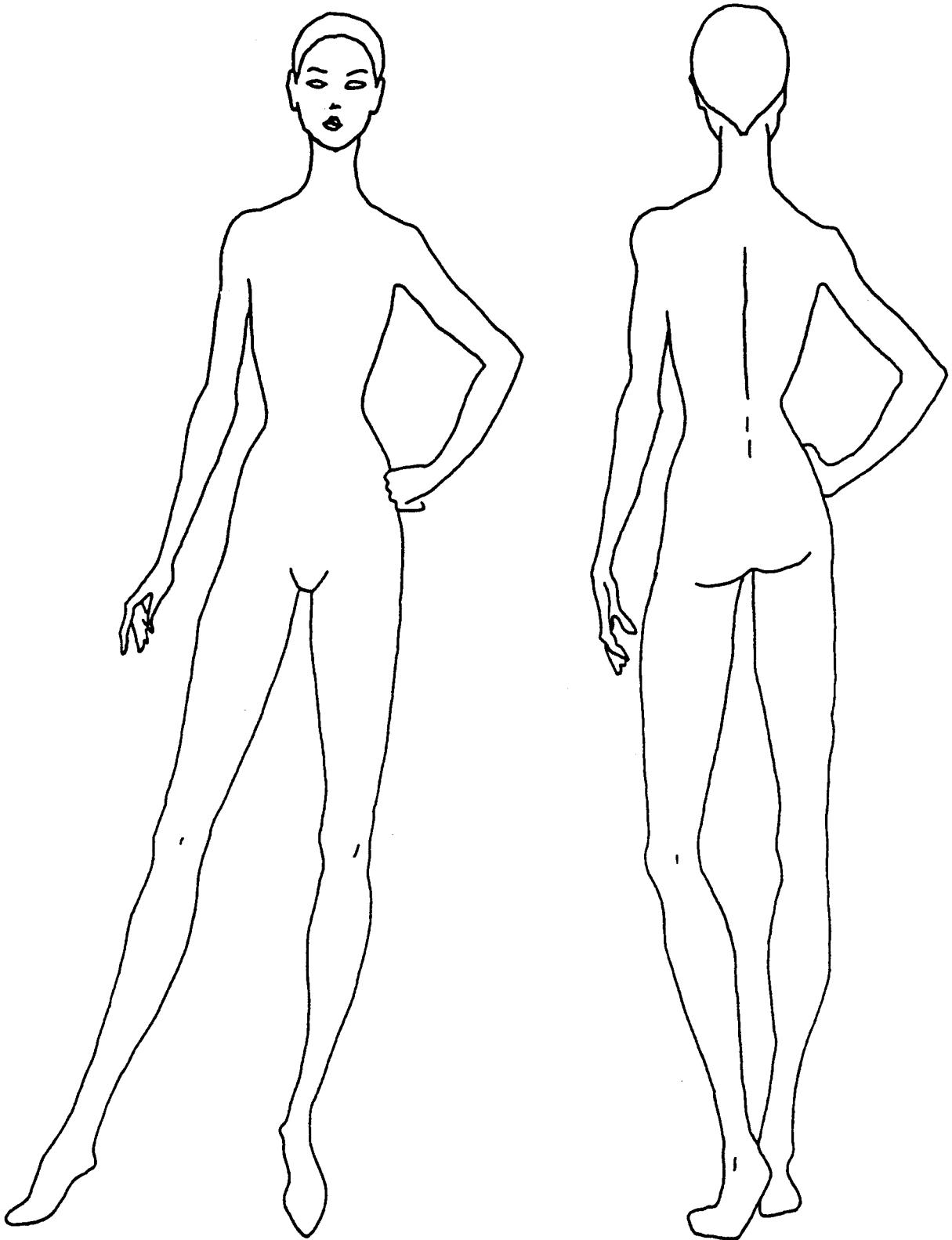
The main article to be recycled or reused is to be denim jeans. Other materials or objects may be incorporated.

- (a) Name the home-furnishing item and give your design a title.
- (b) Sketch and fully label your design.
- (c) Outline the production processes that could be used in the construction of the design.
- (d) List the criteria that a panel of judges could use to assess items in the 'recycled creations' section of the exhibition.

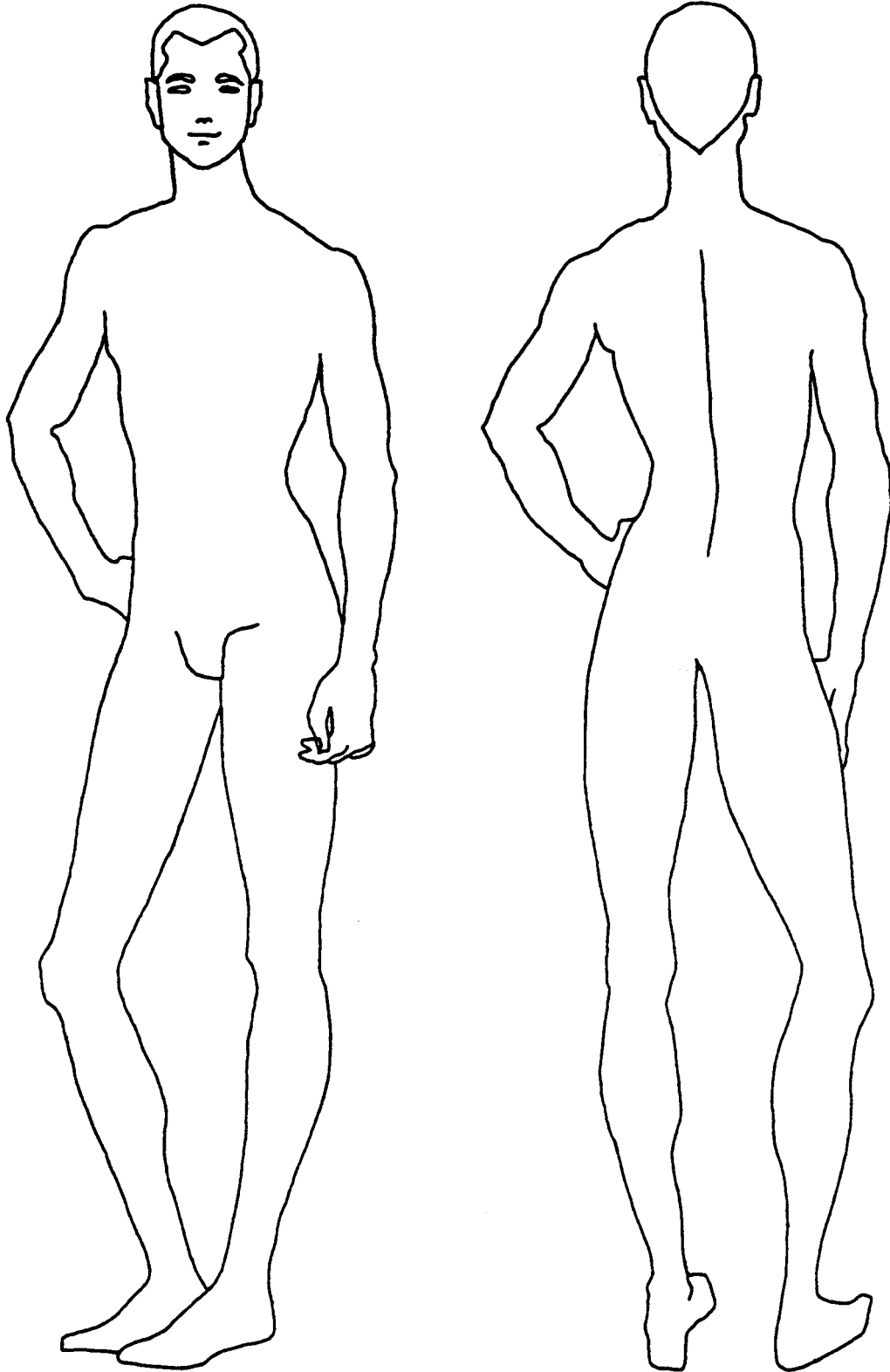


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