



HIGHER SCHOOL CERTIFICATE EXAMINATION

1995

TEXTILES AND DESIGN

3 UNIT (ADDITIONAL)

*Time allowed — One hour and a half
(Plus 5 minutes' reading time)*

DIRECTIONS TO CANDIDATES

- Attempt TWO questions, ONE from each Section.
- All questions are of equal value.
- Answer each question in a *separate* Writing Booklet.
- Pages 11 and 12 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

Attempt ONE question.

QUESTION 1. Fibre Structure*EITHER*

- (a) In the manufacture of textile products, different fibre types may be used for the same end-use.

<i>Group A</i> <ul style="list-style-type: none">• wool carpet• nylon carpet	<i>Group B</i> <ul style="list-style-type: none">• polyester blouse• linen blouse	<i>Group C</i> <ul style="list-style-type: none">• cotton jumper• acrylic jumper	<i>Group D</i> <ul style="list-style-type: none">• viscose boxer shorts• silk boxer shorts
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Select TWO groups from Groups A, B, C, and D.

For *each* of the fibres in the two groups selected, critically evaluate the molecular structure and fibre morphology that make it suitable for the stated end-use.

OR

- (b) There has been growth in the Australian health and fitness industry. This has led to an increased demand for elastomeric fibres used in the production of active sportswear.
- Explain the morphological and molecular structures of both elastomeric and cotton fibres.
 - Describe in detail how the performance criteria for active-sportswear fabrics is achieved with cotton/elastomeric blending.

QUESTION 2. Colour*EITHER*

- (a)
 - (i) Describe in detail ONE method to accurately measure colour.
 - (ii) Explain how the visual appearance of a colour may alter or change, depending on the type of illuminant present.
 - (iii) Under what conditions does metamerism occur and how is the problem overcome?
 - (iv) Explain the importance of metameric colour matching in the textile industry.

OR

- (b) Critically compare the Munsell system and the CIE system of colour measurement.

QUESTION 3. Technological Developments*EITHER*

- (a) Choose ONE technological development that has been introduced to the textile industry in the last fifty years.
- (i) Name the technological development and the area of textile production with which it is associated.
 - (ii) Compare this technological development with conventional or traditional production techniques used to perform the same or a similar function.
 - (iii) Explain how this development has led to a more effective and competitive textile industry.

OR

- (b) Select ONE specialized field of non-apparel textiles. Critically discuss this textile field with reference to:
- fibre selections
 - production processes
 - end-uses
 - impact on the environment.

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SECTION II—DESIGN

Attempt ONE question.

QUESTION 4. History of Clothing Design

EITHER

- (a) ‘The type of clothing worn is an expression of culture.’

Discuss this statement with reference to clothing worn in TWO cultures and/or subcultures.

OR

- (b) Imagine that you have received this invitation.

**An invitation for you to view a special
Fashion Parade**

**20th Century
Fashion**

**featuring creations
from leading
fashion designers.**

Venue: The Designer Hotel

- (i) Name TWO twentieth-century fashion designers whose designs you would expect to see in the parade.
- (ii) For each designer nominated in part (i), sketch and label ONE design that reflects the style of the designer.
- (iii) Explain the role of fashion parades in bringing clothing designs to the consumer.

QUESTION 5. Theatrical Design

EITHER

- (a) A professional theatre company is to travel around NSW, and is scheduled to perform a play at a variety of indoor and outdoor venues.

You are to design a costume for the lead character in a one-act play. The play will be set in ONE of the following periods:

- past
 - present
 - future.
- (i) Identify the period and the setting.
- (ii) Design ONE costume for the lead character. Illustrate both front and back views. Label the design features that depict the qualities of the character.
- (iii) Outline the functional criteria that the costume would require, given that it is to be transported from venue to venue.
- (iv) Explain how the costume and setting could be enriched by lighting-techniques for BOTH indoor and outdoor performances.

OR

- (b) A children's hospital will be raising funds by organizing a charity event. You have been commissioned to design a costume for the character that will lead the festivities.
- (i) Name the character and describe the personality and physical features of the character.
- (ii) Sketch front and back views of the costume design. Label style features, fabric(s), fabric structure(s), and the colour-scheme used.
- (iii) Explain how the design of the costume reflects the personality of the character.
- (iv) Suggest the functional aspects of the design that you would consider when selecting fabrics and constructing the costume.

QUESTION 6. Fabric Design*EITHER*

- (a) A restaurant in the centre of the Botanical Gardens is to be refurbished. The restaurant has large windows. You have been approached to design a series of fabrics that reflect the botanical theme.

Using the illustrations provided on page 9 as your main source of inspiration, answer the following questions.

- (i) Create a design suitable for curtain fabric.
- (ii) Sketch the fabric length to show the placement of the design. Label the sketch to indicate the colour-scheme.
- (iii) Describe a method you could use to incorporate or apply the design.
- (iv) Show how the design could be adapted for upholstery fabrics to be used in the foyer of the restaurant.
- (v) Explain the design process that you used to adapt the design.

OR

- (b) As a designer, create a design to be used for an exclusive fashion top.

Your design is to be:

either

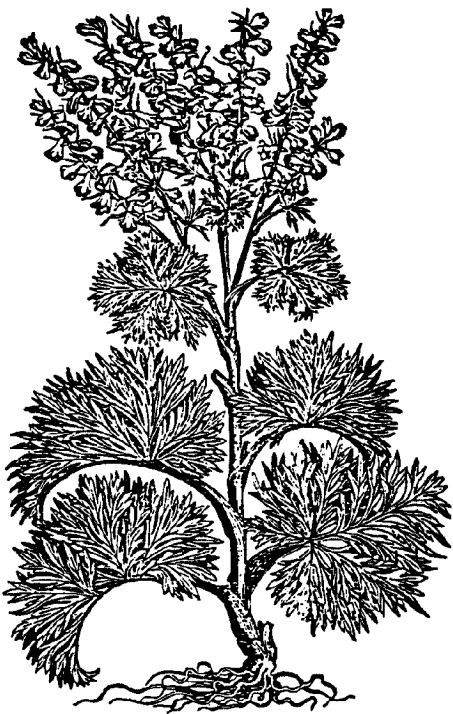
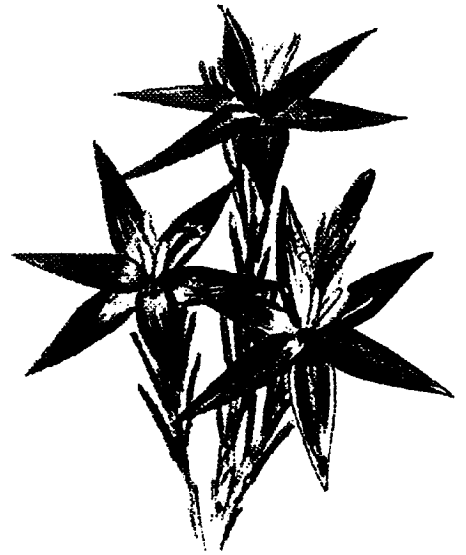
- applied to the fabric surface

or

- introduced as the fabric is being produced.

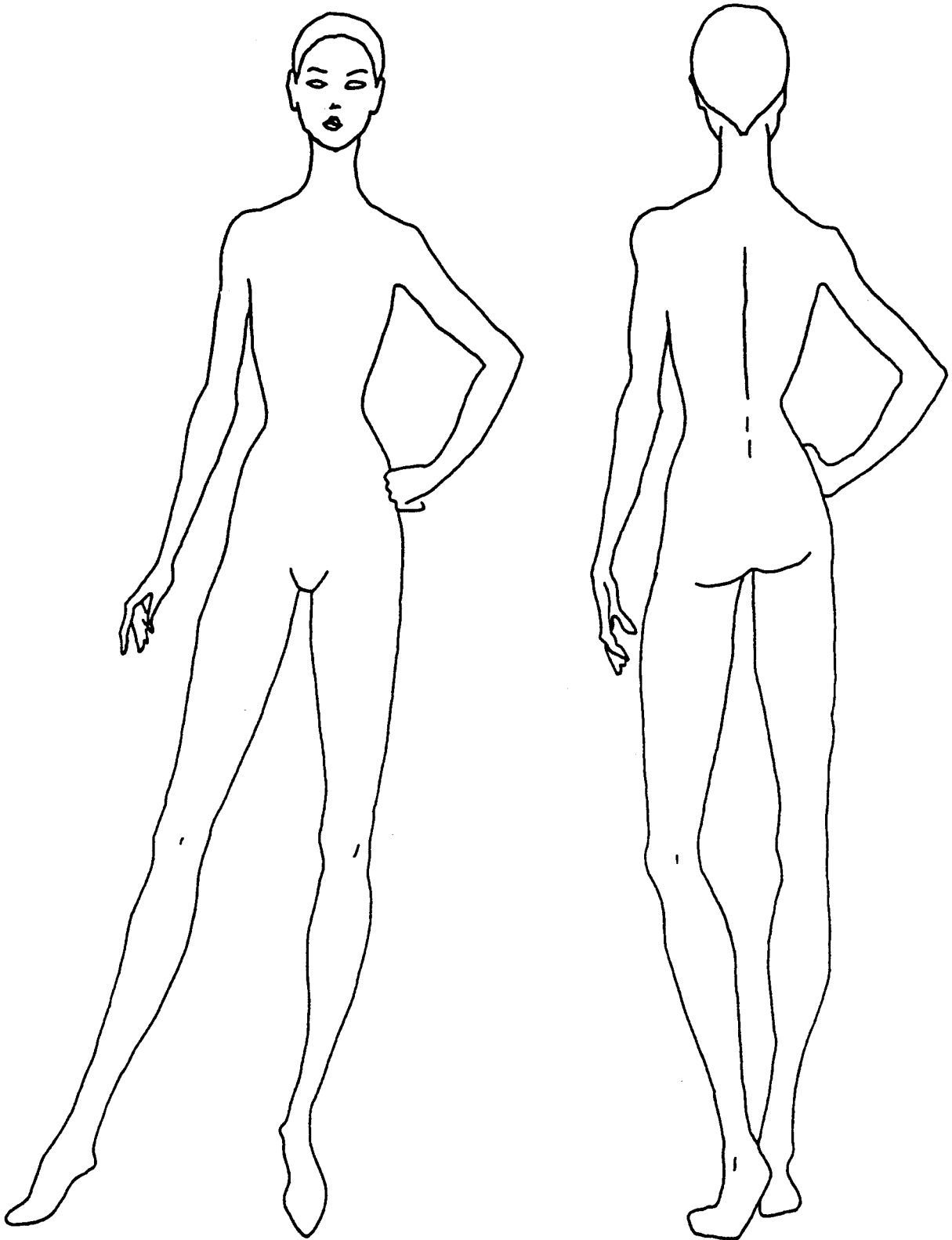
Using the illustrations on page 9 as your main source of inspiration, answer the following questions.

- (i) Create a design suitable for the top.
- (ii) Sketch and label your design as it would appear on the top.
Your sketch should indicate the fibre(s), fabric(s), colour(s) and decoration techniques that could be used.
- (iii) Describe in detail the major decoration technique to be used for the design.
- (iv) Show how you could vary the chosen technique to achieve a variety of textural effects.
- (v) Identify factors that would influence the pricing and marketing of the fashion top.



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Use for tracing only. Do NOT sketch on this sheet. Do NOT hand it in with Writing Booklets.



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