



B O A R D O F S T U D I E S
NEW SOUTH WALES

2005

**HIGHER SCHOOL CERTIFICATE
EXAMINATION**

Textiles and Design

General Instructions

- Reading time – 5 minutes
- Working time – 1½ hours
- Write using black or blue pen
- Write your Centre Number and Student Number at the top of pages 5, 7 and 9

Total marks – 50

Section I Pages 2–4

10 marks

- Attempt Questions 1–10
- Allow about 15 minutes for this section

Section II Pages 5–10

25 marks

- Attempt Questions 11–13
- Allow about 45 minutes for this section

Section III Pages 11–12

15 marks

- Attempt either Question 14 or Question 15
- Allow about 30 minutes for this section

Section I

10 marks

Attempt Questions 1–10

Allow about 15 minutes for this section

Use the multiple-choice answer sheet.

Select the alternative A, B, C or D that best answers the question. Fill in the response oval completely.

Sample: $2 + 4 =$ (A) 2 (B) 6 (C) 8 (D) 9
A B C D

If you think you have made a mistake, put a cross through the incorrect answer and fill in the new answer.

A B C D

If you change your mind and have crossed out what you consider to be the correct answer, then indicate the correct answer by writing the word *correct* and drawing an arrow as follows.

A B C D
correct ↙

- 1 Which of the following are all internal factors that determine the success or failure of designers?
- (A) Expertise, economic, social
 - (B) Facilities, finance, expertise
 - (C) Facilities, political, finance
 - (D) Political, social, economic
- 2 Which of the following is a principle of applying colour to yarns?
- (A) Bleaching
 - (B) Digital imaging
 - (C) Immersion
 - (D) Warping
- 3 Which of the following textile properties are most desirable for Olympic swimwear?
- (A) Absorption and reduced drag
 - (B) Comfort and durability
 - (C) Maximum stretch and durability
 - (D) Maximum stretch and reduced drag
- 4 For an Australian company, which of the following manufacturing strategies would be used when mass-producing low-cost textile products?
- (A) Increase the level of tariff protection.
 - (B) Manufacture textile products overseas.
 - (C) Multiskill the workers.
 - (D) Provide a specialised textile product.
- 5 How have recent developments in knitting machines impacted on the production of fabric?
- (A) By increasing the use of yarn
 - (B) By including stretch in the fabric
 - (C) By creating more job opportunities
 - (D) By increasing design possibilities for knit structures

- 6 Which of the following decorative techniques would most successfully achieve fabric layering on jeans?
- (A) Appliqué
 - (B) Beading
 - (C) Gold foiling
 - (D) Stencilling
- 7 Technological advances in machinery have resulted in what disadvantage for the textile manufacturer?
- (A) Reduced machine productivity
 - (B) Quick response to market trends
 - (C) Increased environmental sustainability
 - (D) Regular investment to update machinery
- 8 Designers could identify a target market for their products by analysing which of the following information?
- (A) Language, geographic location, gender
 - (B) Available resources, language, expertise
 - (C) Socioeconomic status, geographic location, gender
 - (D) Available resources, expertise, socioeconomic status
- 9 Which of the following changing trends in society most influence interior designers?
- (A) Consumer demands, technology, religion, government legislation
 - (B) Globalisation, consumer demands, technology, government legislation
 - (C) Religion, consumer demands, government legislation, war
 - (D) Technology, war, globalisation, religion
- 10 A plain-weave fabric made from a filament yarn offering breathability, water resistance and ultraviolet protection would suit which of the following textile car accessories?
- (A) Exterior car cover
 - (B) Internal carpet
 - (C) Sheep-skin seat covers
 - (D) Steering-wheel cover

Textiles and Design

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Centre Number

Section II

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Student Number

25 marks

Attempt Questions 11–13

Allow about 45 minutes for this section

Answer the questions in the spaces provided.

Marks

Question 11 — Australian Textiles, Clothing, Footwear and Allied Industries

(5 marks)

- (a) The Australian textile industry responds to changing consumer demands by developing specific products. 2

Identify a changing consumer demand, and give ONE example of a textile product developed in response to this demand.

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- (b) Outline an example of how the Australian textile industry: 3

recycles textile resources;

.....

reduces pollution;

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meets government legislation.

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Textiles and Design

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Centre Number

Section II (continued)

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Student Number

Marks

Question 12 — Design (10 marks)

Choose a culture and answer parts (a), (b) and (c) in relation to this culture.

Chosen culture:

- (a) Identify a traditional textile production method, and describe how it has changed as a result of technological developments. **2**

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- (b) Outline how TWO traditional textile production methods reflect workers' skills or status. **2**

(i)

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(ii)

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Question 12 continues on page 8

Question 12 (continued)

- (c) (i) Describe, using examples, the design of traditional textile art forms in your chosen culture. **2**

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- (ii) Analyse the influence of these traditional textile art forms on contemporary design. **4**

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End of Question 12

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Centre Number

Section II (continued)

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Student Number

Marks

Question 13 — Properties and Performance of Textiles (10 marks)

- (a) For a fabric used for theatre seating, list THREE desirable textile properties, and outline why they are desirable. **3**

(i)

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(ii)

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(iii)

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- (b) For the seating fabric, identify and justify characteristics of the yarn structure. **3**

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Question 13 continues on page 10

Question 13 (continued)

- (c) For a fabric that is to be used in theatre curtains, identify and justify a suitable fibre content and fabric structure. **4**

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End of Question 13

Textiles and Design

Section III

15 marks

Attempt either Question 14 or Question 15

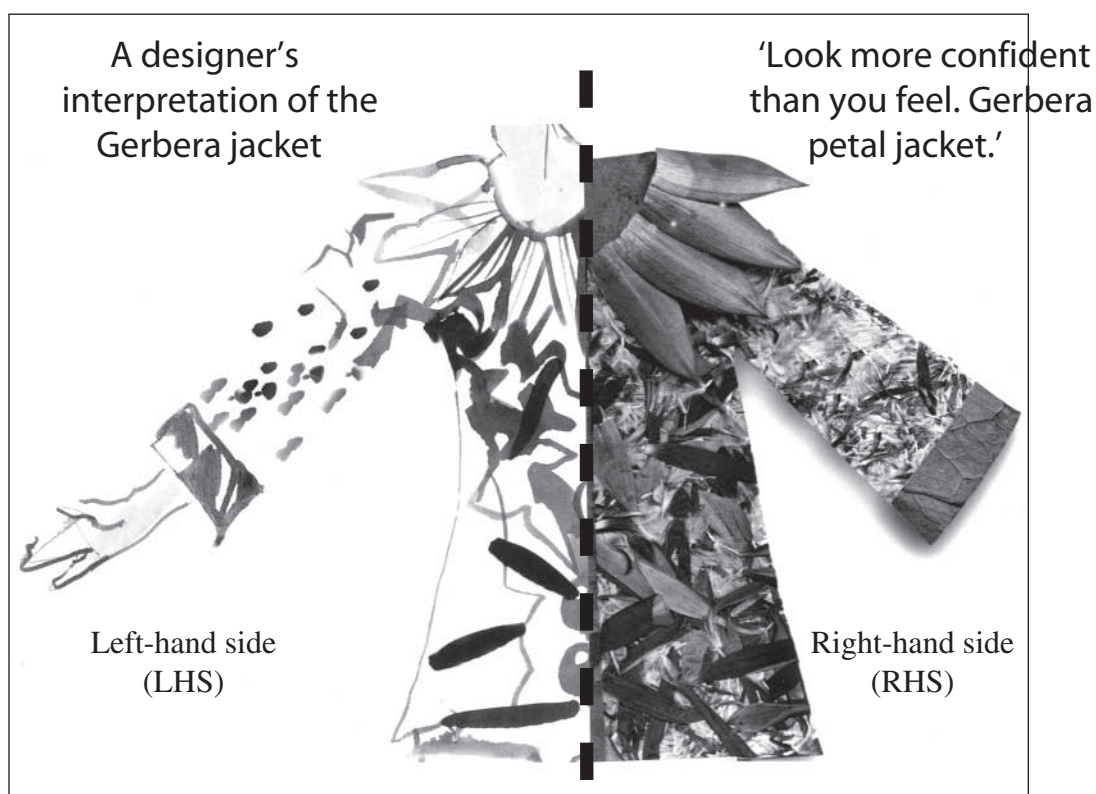
Allow about 30 minutes for this section

Answer the question in a writing booklet. Extra writing booklets are available.

Marks

Question 14 — Design (15 marks)

Use this stimulus material to answer parts (a) and (b).



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- (a) Referring to the left-hand side of the stimulus material (LHS), identify a printing method for the product, and outline the method of application involved in reproducing this as a print on 100% cotton fabric. 5
- (b) Referring to the right-hand side of the stimulus material (RHS), discuss and justify the selection and application of a combination of appropriate fabric decoration methods, including printing, to achieve a textured design. 10

OR

Please turn over

Question 15 — Properties and Performance of Textiles (15 marks)

- (a) Select TWO innovations in fabric finishing techniques, and for each one describe their application to fabric. **5**

- (b) **10**

Finishing treatments give fabrics very specific behaviours and functions. Many finishing processes were originally designed for special purposes. However, through technology today, fabric finishes are more readily available for wider use.

From: Techno Textiles: Revolutionary Fabrics for Fashion and Design by Sarah E Braddock & Marie O'Mahony.

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Discuss and evaluate the impact of fabric finishes on the performance of fabric for special purposes.

End of paper