



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

2009

**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 Page 5–10

25 marks

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

Section III Page 11

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 for Questions 1–10.

1 Hand embroidery would be a suitable method of fabric decoration for which of the following end-uses?

- (A) Beach towels, tents and cushions
- (B) Cushions, christening gowns and wall hangings
- (C) Fashion articles, corporate wear and wall hangings
- (D) Hand towels, school uniforms and high-end fashion

2 A low cost, lightweight, dimensionally stable and absorbent fabric is required for cleaning cloths for the home.

Which fabric structure is most appropriate for this end-use?

- (A) Woven pile
- (B) Knitted pile
- (C) Non-woven washable web
- (D) Thermally bonded non-woven

3 Denim jeans have been continually redesigned and modified to follow current fashion.

This design modification is an example of

- (A) direct selling.
- (B) a distribution channel.
- (C) a promotional strategy.
- (D) extending product lifecycle.

4 Access to the internet has increased the worldwide distribution of textile products.

What is this an example of?

- (A) Globalisation
- (B) Technical production
- (C) Government legislation
- (D) Off-shore mass production

5 Which of the following textile furnishings most requires a fire retardant finish?

- (A) Cotton towelling bath mat
- (B) Cotton velveteen theatre curtains
- (C) Wool twill weave infants blanket
- (D) Wool plain weave upholstered restaurant chairs

6 Which fibre, yarn and fabric structure would be most suitable for the production of a wet weather umbrella?

- (A) Nylon, staple spun, warp knit
- (B) Polyester, monofilament, weft knit
- (C) Nylon, multifilament, plain weave
- (D) Viscose rayon, high twist, twill weave

7 A 100% wool, black and white striped woven fabric is to have identical colour design on both sides of the fabric.

What is the most suitable colouration technique to produce the striped design?

- (A) Transfer printing
- (B) Digital printing
- (C) Piece dyeing
- (D) Yarn dyeing

- 8** A costume designer requires manufacturing space and access to electronic banking to establish a new business.

To which internal factors do these aspects of the business relate?

- (A) Facilities and financial
 - (B) Financial and economic
 - (C) Economic and technological
 - (D) Technological and facilities
- 9** Contemporary swimwear designers attempt to cater for changing trends in society.
- Which of the following would be the most important in addressing these trends?
- (A) Innovative design, lifestyle demands, manufacturing facilities and aesthetic design
 - (B) Innovative design, sun protection, environmental sustainability and lifestyle demands
 - (C) Environmental sustainability, sun protection, decorative techniques and technological development
 - (D) Environmental sustainability, economic considerations, manufacturing techniques and decorative techniques
- 10** What is the most likely reason that Australian textile manufacturers are finding it increasingly difficult to remain competitive?
- (A) There has been a decrease in employment opportunities.
 - (B) The Australian textile industry has been restructured.
 - (C) Tariffs and quotas have been reduced in Australia.
 - (D) Australian textile manufacturers have been receiving government subsidies.

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.

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

(5 marks)

- (a) Give an example of ONE promotional strategy and ONE pricing structure used to market new textile items. **2**

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- (b) Australian textile manufacturers have adopted a range of practices so that they can use environmentally sustainable resources. **3**

Identify ONE of these practices and describe the advantages this method of manufacture has had on the environment.

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Centre Number

Section II (continued)

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Student Number

Question 12 — Design (10 marks)

Answer parts (a) and (b) in relation to a culture you have studied.

Culture studied:

- (a) Outline a traditional skill that is used in the production of textile items from your chosen culture. **2**

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- (b) Describe how the design features of a traditional textile item from the culture studied have been adapted into contemporary textiles. **3**

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Question 12 continues on page 8

Question 12 (continued)

Answer part (c) in relation to a focus area you have studied.

Focus area studied:

- (c) Explain, using examples, how textile design and production in your chosen focus area have changed over time. **5**

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End of Question 12

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Centre Number

Section II (continued)

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Student Number

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

(a) A polyester/cotton blend staple spun, plain weave fabric has many applications for textile products.

(i) Name ONE end-use for which this fabric is suitable. **1**

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(ii) Outline how the properties of this fabric make it suitable for this end-use. **2**

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(b) Explain why fabric produced from yarns spun from microfibre has properties and performance that make it suitable for protective outerwear. **3**

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Question 13 continues on page 10

Question 13 (continued)

- (c) (i) What is a bicomponent yarn? **1**

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- (ii) Explain the use of bicomponent yarns in enhancing the performance properties of a specific textile item. **3**

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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.

Question 14 — Design (15 marks)

- (a) Outline the process involved in textile dyeing. **5**
- (b) Name a method of printing and an end-use for which this method is suitable. **10**

Justify the choice of this method of printing for the end-use you have selected, and describe the steps involved in printing using this method.

OR

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

- (a) Outline how ONE advance in textile machine technology has changed the way textile products are constructed. **5**
- (b) Name ONE innovation in textile machinery and analyse the advantages and disadvantages of this innovation for consumers and the environment. **10**

End of paper

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