



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

2004

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 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.

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.

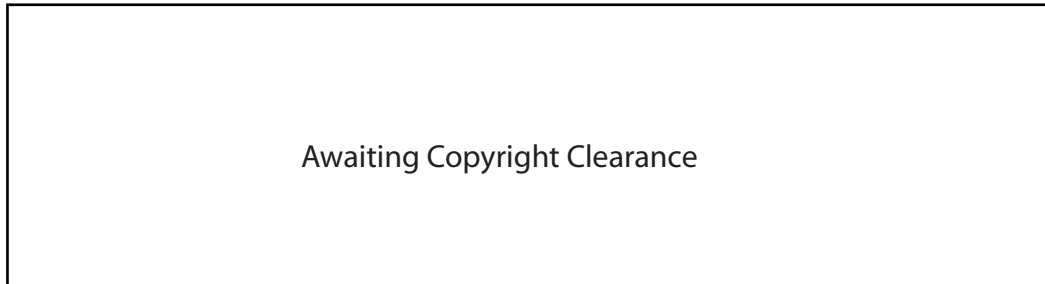
A B C D

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 is an example of the design principle of informal balance?

- (A) (B) (C) (D)



2 Which of the following are all external factors that determine the success or failure of designers?

- (A) Economic, social and political
- (B) Economic, social and financial
- (C) Economic, facilities and financial
- (D) Technological, ecological and expertise

3 Why have many Australian clothing companies chosen to manufacture garments offshore?

- (A) To reduce pollution
- (B) To meet changing consumer demands
- (C) To access cheaper manufacturing costs
- (D) To conform to legal requirements of the industry

4 What disadvantage can innovation bring for a textile manufacturer?

- (A) Increased sales
- (B) Increased capital outlay
- (C) Reduced labour costs
- (D) Reduced overheads

5 Which of the following fibres is the most difficult to dye?

- (A) Cotton
- (B) Nylon
- (C) Polyester
- (D) Viscose rayon

- 6 Which of the following are all examples of washable webs?
- (A) Fusible webbing, denim and polyester wadding
 - (B) Denim, fusible webbing, non-woven interfacing
 - (C) Polyester wadding, wool felt and non-woven interfacing
 - (D) Non-woven interfacing, fusible webbing and polyester wadding
- 7 Printing of textiles differs from the dyeing of textiles. Which of the following applies to printing?
- (A) A thicker paste is used, a chemical reaction is not required and the fabric is not fully immersed.
 - (B) A thinner paste is used, a chemical reaction is not required and the fabric is not fully immersed.
 - (C) A thicker paste is used, a chemical reaction is required and the fabric is fully immersed.
 - (D) A thinner paste is used, a chemical reaction is required and the fabric is fully immersed.
- 8 Which of the following fabrics would be produced using warp-knitting with multifilament yarns?
- (A) Double knit
 - (B) Interlock
 - (C) Single knit jersey
 - (D) Tricot
- 9 Which of the following yarn and fabric structures would best maximise the heat retention of a microfibre blanket?
- (A) A core spun yarn in a plain weave
 - (B) A textured, monofilament yarn in a warp knit
 - (C) A low twist level, staple spun yarn in a pile weave
 - (D) A high twist level, multifilament yarn in a weft knit
- 10 Over recent years many textiles manufacturers have become more environmentally aware. What is one consequence of this increasing awareness?
- (A) Textile manufacturers can be accredited with an environmental certification that entitles them to government protection.
 - (B) Textile waste and used clothing are being recycled into innovative and improved products.
 - (C) Textile manufacturers are able to receive government subsidies because they produce environmentally friendly products.
 - (D) The textile industry is being restructured and this has led to an increase in the skill level of workers.

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) A current issue that affects the textile industry is globalisation. What is meant by the term *globalisation*? 1

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- (b) Select a textile product

Identify and describe TWO important aspects of marketing this textile product. 4

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Centre Number

Section II (continued)

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Student Number

Marks

Question 12 — Design (10 marks)

- (a) (i) What method of fabric decoration is suitable for a logo on a plain weave, woollen blazer? **1**

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- (ii) Give TWO reasons for your choice. **2**

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- (b) Describe THREE principles of dyeing textiles. **3**

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Question 12 continues on page 8

Question 12 (continued)

- (c) Explain how the availability of resources and the religious practices of culture(s) have influenced textile 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) Identify TWO advantages and TWO disadvantages of soil-resistant finishes.

(i) Advantages: **2**

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(ii) Disadvantages: **2**

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(b) Describe TWO ways in which bicomponent yarns are used to enhance the performance of textiles. **2**

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Question 13 continues on page 10

Question 13 (continued)

- (c) Identify a suitable fibre content and fabric structure for a sky-diver's parachute, and justify your choices. **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) | |
| (a) For a textile focus area(s) of your choice, identify TWO historical design developments and outline their influences on contemporary textile products, giving examples. | 6 |
| (b) For ONE contemporary designer of your choice, describe the inspirations that characterise their work. Analyse how the designer has incorporated these inspirations into their work and the impact this has had on current trends. | 9 |

OR

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

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| (a) Identify TWO innovations in decorative techniques used to enhance textile design and outline why these would be used, giving examples of end products. | 6 |
| (b) For ONE area of textile production, describe the utilisation of new textile technologies. Analyse how these new technologies have impacted on the manufacturer, and on end products available to the consumer. | 9 |

End of paper

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