



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

2010

**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 for Questions 1–10.

- 1** What is appliqué?
- (A) Fabric secured onto a base fabric by embroidery stitches
 - (B) A surface decoration using the application of print paste
 - (C) The application of wax as a resist method to colour fabric
 - (D) A decorative design applied by the interlacing of different coloured yarns
- 2** Lightweight, high performance backpacks for mountain climbers are designed with specific consumer needs in mind.
- Which specific consumer group has been considered?
- (A) Mass market
 - (B) Local market
 - (C) Target market
 - (D) Global market
- 3** Which of the following textile technologies is cost-effective, time efficient and enables apparel designers to transfer ideas into patterns?
- (A) Computer-aided design
 - (B) Computerised laser cutting
 - (C) Computer-aided manufacture
 - (D) Computer seamless technology

4 An experiment that tests dye fixation on a 100% cotton woven fabric would examine which of the following properties?

- (A) Wash fastness
- (B) Water repellency
- (C) Abrasion resistance
- (D) Moisture absorption

5 Which of the following would be the most suitable fibre, yarn and fabric structure in the manufacture of school socks?

- (A) Polyester fibre, plain weave
- (B) Viscose staple spun yarn, weft rib knit
- (C) Polyester and cotton core spun yarn, warp knit
- (D) Cotton and nylon blended staple spun yarn, weft knit

6 In support of breast cancer research, Australian fashion designers have incorporated pink ribbon symbols into their clothing designs.

Which factor has been the major influence on the success of these products?

- (A) Ecological
- (B) Economic
- (C) Social
- (D) Technological

7 A company producing chef uniforms wants to increase the availability of these uniforms in the marketplace.

What aspects of marketing should be used?

- (A) Ongoing television and radio advertising
- (B) Effective place and distribution channels
- (C) Appropriate promotion and price strategies
- (D) Shopping centre and letterbox leaflet distribution

- 8** What best describes a bicomponent yarn?
- (A) A yarn extruded from a single polymer
 - (B) A yarn spun from two natural staple fibres
 - (C) A yarn co-extruded with more than one polymer
 - (D) A yarn blended from more than one ultra-fine fibre
- 9** In response to society's concern for the environment, textile designers have sought to use fibres, such as bamboo, in garment manufacture.
- What does this response reflect?
- (A) An environmental trend influencing designers
 - (B) Designers influencing an environmental trend
 - (C) Environmental factors affecting workers' status
 - (D) A designer's expertise affected by limited environmental resources
- 10** A method successfully used by Australian textile manufacturers to increase the export of locally-produced textile products to the global market is to
- (A) pay skilled textile workers in overseas countries.
 - (B) utilise new technologies in product development.
 - (C) utilise government assistance to promote off-shore production.
 - (D) offer designer copies at an increased cost to improve competitiveness.

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Textiles and Design

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Centre Number

Section II

25 marks

Attempt Questions 11–13

Allow about 45 minutes for this section

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Student Number

Answer the questions in the spaces provided. These spaces provide guidance for the expected length of response.

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

(5 marks)

- (a) Explain how Australian clothing manufacturers have responded to changing consumer demand for sun protection factor clothing. 2

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- (b) How has Australian government legislation influenced Australian textile industries to select processes and resources that have a reduced impact on the environment? 3

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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 contemporary designer you have studied.

Contemporary designer studied:.....

- (a) Identify TWO sources of inspiration specifically used by this designer. 2

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- (b) Analyse the influence this designer has on current trends in society. 3

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Question 12 continues on page 8

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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) Outline the process of digital printing. 2

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- (b) What are the advantages and disadvantages of using digital printing in fabric design? 3

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Question 13 continues on page 10

Question 13 (continued)

- (c) How have the characteristics of washable webs led to a greater variety of products being available? 5

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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 historical design developments from a focus area you have studied. **5**
- (b) Analyse the specific influence of society on the historical textile design developments outlined in (a). **10**

OR

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

- (a) With reference to a fibre you have studied, explain how the selection of yarn and fabric structure will determine the end use applications for that fibre. **5**
- (b) Analyse TWO innovations in finishing techniques that enhance the performance properties of fabrics and their specific end use applications. **10**

End of paper

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