



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

**2011**

**HIGHER SCHOOL CERTIFICATE  
EXAMINATION**

# Textiles and Design

## General Instructions

- Reading time – 5 minutes
- Working time –  $1\frac{1}{2}$  hours
- Write using black or blue pen  
Black pen is preferred
- 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.

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- 1** The introduction of velcro fastenings to replace buttons and buttonholes has enabled quicker costume changes in theatre production.

What is this an example of?

- (A) Self-expression
- (B) Aesthetic design
- (C) Changing consumer demand
- (D) Historical design development

- 2** For which of the following textile items would a wool, worsted yarn, plain weave fabric be most suitable?

- (A) Work overalls
- (B) Business suit
- (C) School jumper
- (D) Football jersey

- 3** As part of their business strategy, some contemporary textile designers select sustainable energy sources in the design and manufacturing process.

Which combination of factors is most likely to influence this decision?

- (A) Social and economic
- (B) Political and ecological
- (C) Technological and social
- (D) Ecological and economic

- 4 Increasing consumer demand for individual and exclusive designs has led to greater production and availability of
- (A) niche textile products.
  - (B) locally produced textile products.
  - (C) imported mass-produced textile products.
  - (D) environmentally-friendly textile products.

- 5 In some areas of Australia, cotton fibre is grown and is exported raw for yarn and fabric manufacture.

What is this an example of?

- (A) Local distribution and off-shore marketing
  - (B) Local production and off-shore manufacture
  - (C) Local marketing and off-shore manufacture
  - (D) Local manufacture and off-shore distribution
- 6 More textile art designers are using recycled yarns and fabrics in their creative work.

Which combinations of factors has the greatest influence on this trend?

- (A) Self-expression and globalisation
  - (B) Globalisation and consumer demand
  - (C) Technology and resource availability
  - (D) Resource availability and self-expression
- 7 Which statement best describes the process of *fabric printing*?
- (A) Dye is applied to the fabric by immersion and heat set.
  - (B) A levelling agent is applied to the fabric by immersion and heat set.
  - (C) A pigment is applied in a pre-determined pattern to the fabric surface and heat set.
  - (D) A mordant is applied in a pre-determined pattern to the fabric surface and heat set.

- 8** The lounge covers in a hotel lobby have been re-upholstered with 100% cotton pile weave fabric.

Which of the following finishes should be applied to the fabric to best meet the hotel's serviceability and safety requirements?

- (A) Soil resistant and fire retardant
  - (B) Water repellent and soil resistant
  - (C) Abrasion resistant and soil resistant
  - (D) Abrasion resistant and fire retardant
- 9** Which of the following would be the most suitable fibre and yarn structure for the outer layer of a sleeping bag?
- (A) Polyester fibre, low twist yarn
  - (B) Nylon/elastomeric fibre, low twist yarn
  - (C) Nylon fibre, smooth filament high twist yarn
  - (D) Nylon fibre, textured filament high twist yarn
- 10** What are the major pollution concerns in the Australian textile dyeing industry?
- (A) Industrial noise and contaminated land
  - (B) Hazardous chemicals and contaminated land
  - (C) Industrial noise and waste water management
  - (D) Hazardous chemicals and waste water management

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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. These spaces provide guidance for the expected length of response.

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

(5 marks)

- (a) How has the design of outdoor sportswear been adapted to suit the Australian lifestyle? 2

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- (b) Name an organic fibre source and explain why organic fibres are increasingly used in textile production. 3

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Centre Number

Section II (continued)

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Student Number

Question 12 — Design (10 marks)

- (a) What are the characteristics of embroidery? 2

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- (b) (i) Name a contemporary textile designer you have studied. How do TWO features of this designer’s work demonstrate their source of inspiration? 3

Contemporary textile designer studied: .....
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Question 12 continues on page 8

Question 12 (continued)

- (ii) Explain how expertise, facilities and financial factors have contributed to the success or failure of the textile designer named in part (i). **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) What are *bicomponent* yarns? 2

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- (b) How have the properties of washable webs contributed to their extensive end-use? 3

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Question 13 continues on page 10

Question 13 (continued)

- (c) Name ONE innovative finishing technique and explain how the finish is applied and how it enhances fabric performance. **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.

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#### **Question 14 — Design (15 marks)**

- (a) How have the design features of a traditional textile item from a culture you have studied been adapted for the production of contemporary textile items? **5**
- (b) Analyse the impact of technological developments and religious practices on textile design and production in a culture you have studied. **10**

**OR**

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

- (a) How do the properties of microfibres enhance fabric performance? **5**
- (b) Explain how the use of Computer Aided Design (CAD) and Computer Aided Manufacture (CAM) have influenced current design and manufacture of textile products. **10**

**End of paper**

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