



2013
**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.

- 1** During which stage of the textile product life cycle are sales and profits likely to increase?
- (A) Growth
 - (B) Introduction
 - (C) Maturity
 - (D) Stabilisation
- 2** A new design for a bath robe is based on the Japanese kimono.
- This could be an example of a contemporary textile design being influenced by
- (A) cultural factors.
 - (B) resources available.
 - (C) geographic location.
 - (D) technological developments.
- 3** Which technique would be the most efficient for applying a logo to caps for a local sporting team?
- (A) Roller printing
 - (B) Hand embroidery
 - (C) Machine embroidery
 - (D) Rotary screen printing

- 4 Which of the following has most influenced the increased use of sun protection factor clothing?
- (A) Fashion trends
 - (B) Consumer demand
 - (C) Swimwear designers
 - (D) Government legislation
- 5 In order to become more successful, designers seek to have their clothes worn by celebrities at red carpet award ceremonies.
- By using this promotional strategy, the designer is demonstrating an awareness of
- (A) ecological issues.
 - (B) economic conditions.
 - (C) technological innovations.
 - (D) consumers' social aspirations.
- 6 What type of yarn consists of filaments co-extruded from more than one polymer?
- (A) Blended
 - (B) Spun staple
 - (C) Multifilament
 - (D) Bicomponent
- 7 A contemporary designer who values sustainability and ethical practice is most likely to
- (A) adapt traditional designs.
 - (B) use organically produced materials.
 - (C) use technologically advanced materials.
 - (D) implement innovative manufacturing processes.

- 8** What would be the most suitable end-use for a wool fibre, staple spun yarn, and weft knit fabric structure?
- (A) Sports track pants
 - (B) Men's business suits
 - (C) Bushwalking socks
 - (D) Polar fleece jumpers
- 9** Who is responsible for regulating the safe disposal of waste products from textile industry manufacturing processes?
- (A) Industry organisations
 - (B) Government organisations
 - (C) Consumer advocacy groups
 - (D) Environmental activist groups
- 10** Which combination of fibre, yarn and fabric structure would be the most suitable for a boat sail?

	<i>Fibre</i>	<i>Yarn</i>	<i>Fabric</i>
(A)	Polyester	Low twist staple	Twill weave
(B)	Viscose rayon	High twist filament	Twill weave
(C)	Cotton	Low twist staple	Plain weave
(D)	Nylon	High twist filament	Plain weave

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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) Distinguish between *niche* and *mass-produced* textile products.

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- (b) How has online shopping for textile products affected consumers?

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Centre Number

Section II (continued)

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Student Number

Question 12 — Design (10 marks)

- (a) What is
- appliqué*
- ?

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- (b) For a focus area you have studied, discuss the influence of society on the historical design development of textiles. Use examples in your response.

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Focus area studied:

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Question 12 continues on page 8

Question 12 (continued)

- (c) Explain how a designer you have studied expresses their inspirations in their designs.

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Designer studied:

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End of Question 12

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Textiles and Design

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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
- washable webs*
- ?

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- (b) How can the properties of microfibres enhance the performance of textile items?
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- Use an example in your response.

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Question 13 continues on page 10

Question 13 (continued)

- (c) Explain how the introduction of computer-aided manufacture has affected the construction of textile items.

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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) Explain how ONE of the principles of dyeing can be demonstrated through experimentation. In your response, include a relevant experiment. **5**
- (b) For a culture you have studied, explain how textile production and textile art forms have been used for self-expression and communication. **10**

In your response, name the culture and use examples.

OR

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

- (a) Describe the effect that the use of digital printing has on the manufacturer and the environment. **5**
- (b) Seats in a public theatre need to be covered with fabric that will satisfy fabric performance and safety requirements. **10**

Justify the selection of a suitable fibre, yarn, fabric structure and fabric finish for the theatre seat fabric.

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