



NSW Education Standards Authority

**2020** HIGHER SCHOOL CERTIFICATE EXAMINATION

# Textiles and Design

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**General  
Instructions**

- Reading time – 5 minutes
- Working time – 1 hour and 30 minutes
- Write using black pen

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**Total marks:  
50**

**Section I – 10 marks** (pages 2–4)

- Attempt Questions 1–10
- Allow about 15 minutes for this section

**Section II – 24 marks** (pages 5–9)

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

**Section III – 16 marks** (pages 10–13)

- Attempt BOTH Question 14 and 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** An interior designer has been asked to design furnishings which acknowledge Australian cultural heritage.

Which of the following best fulfils this brief?

- A. Curtains with Aboriginal motifs
- B. Carpet with a geometric design
- C. Lounge covers with block printing
- D. Wall hanging with a jacquard weave

- 2** Some Australian clothing companies manufacture their items in developing countries and then sell them to many other countries.

What is this an example of?

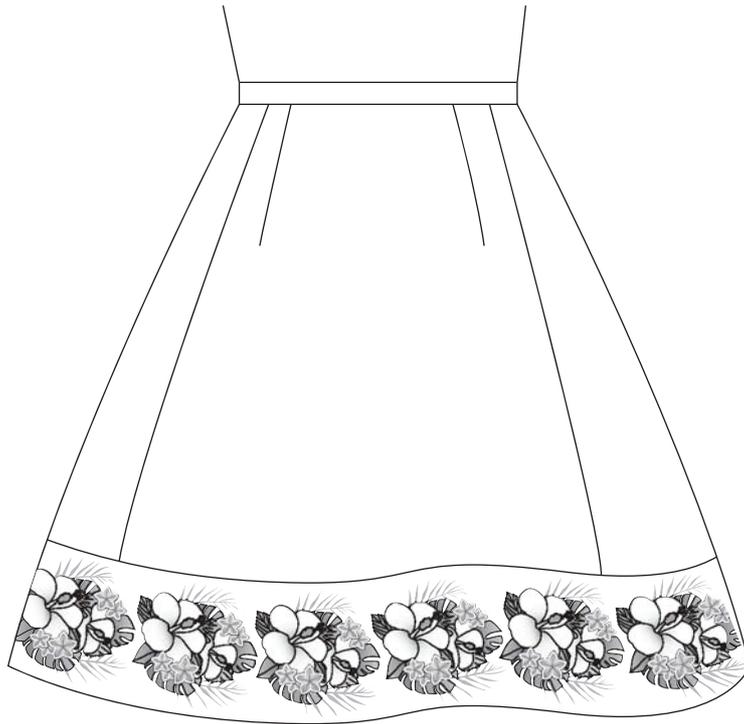
- A. Consumerism
- B. Globalisation
- C. Legislation
- D. Sustainability

- 3** After the Sydney Olympic Games many quilt designers around Australia showed an increased interest in producing quilts with an Australian theme.

This increased interest was most likely due to

- A. recycling.
- B. marketing.
- C. innovation.
- D. inspiration.

- 4 A skirt is being produced with a border featuring a complex repeating design of multicoloured flowers, as shown in the diagram.



Flowers borders vector set by freedesignfile

Which method would produce the border in the shortest time and with the most consistent result?

- A. Appliqué
  - B. Block printing
  - C. Digital printing
  - D. Hand embroidery
- 5 Many rural and regional communities produce original handmade items, including textile items. A social media campaign is being developed to encourage people to buy from these communities. Many of the products will be made available for online purchase.

Which aspects of marketing are most evident in this situation?

A.	Place and distribution channels	Promotion strategies
B.	Place and distribution channels	Product planning
C.	Price structure	Promotion strategies
D.	Price structure	Product planning

- 6 Which of the following would NOT have been available prior to the 1950s?
- Cotton sheets
  - Woollen jacket
  - Nylon stockings
  - Elastomeric swimwear
- 7 Which pair of fabric properties is most desirable for a reusable shopping bag made from a washable web fabric?
- Absorbency, durability
  - Absorbency, resiliency
  - Abrasion resistance, durability
  - Abrasion resistance, resiliency
- 8 In which of the following has the fabric performance been enhanced by the application of a finishing technique?
- Shrink-resistant cotton shirt
  - Moisture-wicking active wear
  - High-stretch medical bandage
  - Non-laddering children's tights
- 9 Which of the following statements is true about a dress made of microfibre polyester?
- It crushes easily.
  - It is heavy and stiff.
  - It is soft and has excellent drape.
  - It is made from monofilament yarns.
- 10 Which fibre, yarn and fabric combination is the most suitable for a compression sports garment?

	<i>Fibre</i>	<i>Yarn</i>	<i>Fabric</i>
A.	Nylon/elastomeric	Textured monofilament	Single weft knit
B.	Nylon/elastomeric	Core spun multifilament	Tricot warp knit
C.	Cotton/elastomeric	Core spun multifilament	Single weft knit
D.	Cotton/elastomeric	Textured monofilament	Tricot warp knit

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Centre Number

## Textiles and Design

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Student Number

### Sections II and III

### Answer Booklet

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**Instructions**

- Write your Centre Number and Student Number at the top of this page.
- Use this answer booklet for Sections II and III.
- Answer BOTH Sections.
- Follow the instructions inside this booklet as to where you should write your answers.

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**Please turn over**

**Section II**

**24 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 Textile, Clothing, Footwear and Allied Industries**  
(8 marks)

- (a) What has led to the increased availability of sun-protective work clothing with rating UPF 50+? **2**

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- (b) A sportswear company is planning to launch a niche clothing range that uses fabric made from used plastic (PET) bottles. **3**

How does this demonstrate appropriate and sustainable use of resources?

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**Question 11 continues on page 7**

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Question 11 (continued)

- (c) Explain the purpose of government legislation which relates to pollution associated with the textile industry. Use an example to support your answer. **3**

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**End of Question 11**

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**Question 12 — Design (8 marks)**

(a) The flow chart sets out the main principles of dyeing.

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Explain what happens during *migration* and *fixation* in the dyeing process.

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(b) Explain how traditional textile production methods or art forms can be used in a contemporary textile item to express cultural identity. Use examples from a culture you have studied.

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Culture studied: .....
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**Question 13 — Properties and Performance of Textiles (8 marks)**

- (a) Describe how the use of computer-aided design (CAD) can save time in the production of textile items. **3**

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- (b) Justify a fibre and fabric structure combination that would best meet the end-use requirements of umbrellas used in outdoor eating areas. In your answer, refer to fibre and fabric properties. **5**

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Question 14 (continued)

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End of Question 14





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