



NSW Education Standards Authority

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Centre Number

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Student Number

2023 HIGHER SCHOOL CERTIFICATE EXAMINATION

Textiles and Design

General Instructions

- Reading time – 5 minutes
- Working time – 1 hour and 30 minutes
- Write using black pen
- Write your Centre Number and Student Number at the top of this page

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.

1 In which of the following are all of the factors external influences on designers?

- A. Social media, skill level of workers, facilities
- B. Tertiary training, resources available, facilities
- C. Tertiary training, facilities, government legislation
- D. Social media, government legislation, technologies

2 A knitted silk jumper is to have a machine-embroidered motif applied.

Which of the following identifies the most suitable fabric to use behind the embroidered motif?

- A. A woven calico as it is strong
- B. A washable web as it does not fray
- C. A pile weave as it gives height and texture
- D. A double-knit jersey as it provides stability

3 What can manufacturers do to reduce the impact of textile pollution on the environment?

- A. Manufacture offshore
- B. Use more imported raw materials
- C. Eliminate cleaning during fibre manufacture
- D. Minimise the use of chemicals during dyeing

- 4 Which combination of fibre, yarn and fabric structure would be the most suitable for a pair of jeans?

	<i>Fibre</i>	<i>Yarn</i>	<i>Fabric structure</i>
A.	100% viscose	Multifilament yarn	Twill weave
B.	100% polyester	Staple spun yarn	Plain weave
C.	70% cotton and 30% polyester	Multifilament yarn	Plain weave
D.	100% cotton	Staple spun yarn	Twill weave

- 5 Which statement best describes the recycling of textiles in Australia?

- A. There are not enough textile recycling facilities.
- B. Recycled textiles are of better quality than the originals.
- C. Textiles do not need to be recycled as they are biodegradable.
- D. There are too few discarded textiles to make recycling viable.

- 6 A sportswear company has decided to develop a garment that converts the body's heat into usable energy.

Which question would have been most important in making this decision?

- A. Where will the product be sold?
- B. Do all the raw materials come from organic sources?
- C. Will this product meet the changing expectations of consumers?
- D. Do consumers understand the details of this innovative technology?

- 7 Which of the following is an example of a political factor influencing the success of a designer?

- A. A designer's profit increases due to a change in tariff.
- B. A designer's popularity increases due to celebrity endorsements.
- C. A designer sells more products after adopting CAD/CAM systems.
- D. A designer sets up their business by borrowing from a financial institution.

- 8 Which statement best describes the relationship between society and historical design development in textiles?
- A. Economic change is the key force driving textile developments.
 - B. Society's changing needs are the key force driving textile developments.
 - C. Society's textile preferences are not influenced by changes in technology.
 - D. Cultural change is not an influencing factor in the development of new textiles.
- 9 Which of the following best describes a polyester microfibre?
- A. Durable, fine, absorbent
 - B. Breathable, fine, non-absorbent
 - C. Breathable, ultra fine, absorbent
 - D. Durable, ultra fine, non-absorbent
- 10 Hand-knitted socks are to be produced using the following yarn.

75% wool, 5% rayon, 20% nylon

Which row of the table shows the property that each fibre would contribute to the finished socks?

	<i>Wool</i>	<i>Rayon</i>	<i>Nylon</i>
A.	Absorption	Stretch	Lustre
B.	Abrasion resistance	Absorption	Stretch
C.	Lustre	Abrasion resistance	Absorption
D.	Stretch	Lustre	Abrasion resistance

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Sections II and III

Answer Booklet

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.

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) An established brand is launching a new range focusing on children’s swimwear. **2**

Outline a suitable marketing strategy that could be used to promote this new range.

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- (b) Describe the impact of the growing demand for textiles made from organic sources. **3**

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Question 11 continues on page 7

Question 11 (continued)

- (c) Explain the effect of globalisation on the availability of textiles in Australia. **3**

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End of Question 11

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Question 12 – Design (8 marks)

- (a) Outline the main difference between *embroidery* and *appliqué*. 2

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- (b) A purple dye has been used to colour a shirt. During the first wash, the purple colour has run significantly. 3

With reference to ONE principle of dyeing, explain how this could have been avoided.

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- (c) Explain how a designer’s expertise can contribute to their success and/or failure. Support your answer with reference to a designer. 3

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Question 13 – Properties and Performance of Textiles (8 marks)

- (a) Outline how the properties of bicomponent yarns contribute to the performance criteria of a specific textile product. **2**

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- (b) A textile company is expanding their business by introducing innovative machinery. **3**

Describe the advantages and disadvantages of this decision to the employees.

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- (c) A cotton sunhat is to be treated with a fabric finish. **3**

Describe how the properties of cotton and the fabric finish contribute to the functional requirements of the hat.

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Section III

16 marks

Attempt BOTH Question 14 and Question 15

Allow about 30 minutes for this section

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

Question 14 – Design (8 marks)

A local council needs to produce 200 promotional flags for a festival which is to be held in six months. The council wants to use a five-colour design.

With reference to TWO suitable printing methods, justify why one printing method is more appropriate for this project.

<i>Printing method 1</i>	<i>Printing method 2</i>
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Question 14 continues on page 11

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Question 15 (continued)

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