

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	



General Certificate of Secondary Education
June 2014

Design and Technology: Textiles Technology

45701

Unit 1 Written Paper

Friday 23 May 2014 1.30 pm to 3.30 pm

For this paper you must have:

- a black pen, a pencil, a ruler, an eraser, a pencil sharpener and coloured pencils.

Time allowed

- 2 hours

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Answer **all** questions.
- Fill in the boxes at the top of this page.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 120.
- The question in Section A relates to the context referred to in the Preliminary Material that was previously issued.
- You are reminded of the need for good English and clear presentation in your answers. Quality of Written Communication will be assessed in Question 5 (b) (ii).



J U N 1 4 4 5 7 0 1 0 1

Section A

Answer this question in the spaces provided.

Question 1 is about design ideas for a textile product.

You are advised to spend about 35 minutes on this question.

Design Brief

You are going to design a textile product for teenagers inspired by the theme 'fairground' which includes a range of decorative techniques.

Here is a mood board based on the theme 'fairground'.



- 1 (a)** Give **two** types of research used to find out which textile products teenagers prefer to buy.

An example is given below.

Use shop sales data to find out what is selling well.

[2 marks]

1

.....

2.....

.....

- 1 (b)** Look at the mood board on page 2.

List and explain how the fairground images can provide ideas for **three** different decorative textile techniques.

An example is given below.

[3 marks]

Fairground image	Decorative technique
The lightbulbs around the 'CANDY' sign	Decorative machine stitching

Question 1 continues on the next page

Turn over ▶



1 (c) Sketch **two** different initial design ideas for a textile product.

Do not use colour.

The textile product must:

- be based on the theme 'fairground'
- include a range of decorative textile techniques
- appeal to teenagers.

There are 6 marks for each design idea. Marks will be given for:

- creativity and originality of idea based on the theme
- use of a range of decorative textile techniques
- quality of notes and sketches.

[2 marks]

[2 marks]

[2 marks]

Design idea **A**



Design idea **B**

1 (d) (i) Choose **one** of your design ideas for development.

Tick the box to show the idea you have chosen to develop.

Design idea **A**

Design idea **B**

Choose one of your decorative techniques given in question 1(b) to include in your final design in colour.

Technique

Question 1 (d) (i) continues on the next page

Turn over ▶



Use sketches, labelling and notes to present a final design in colour for your textile product.

Use this page and the next page to show your textile product in a presentation drawing.

Marks will be given for:

- use of the fairground theme **[2 marks]**
- use of a range of decorative textile techniques including **one** technique from question 1(b) **[3 marks]**
- use of fabrics and components **[3 marks]**
- creativity and quality of design for a teenager **[4 marks]**
- effective use of colour **[2 marks]**
- quality of presentation including different views of the textile product. **[2 marks]**



Question 1 continues on the next page

Turn over ▶



1 (d) (ii) Explain why your textile product will appeal to teenagers.

[2 marks]

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.....

35



Section B

Answer **all** questions in this section.

Question 2 is about product analysis, fibres and fabrics.

You are advised to spend about 15 minutes on this question.

- 2 (a)** Look at the photograph below. Use a pen to link the text boxes to the correct part of the clothing worn by the cricketer.

[3 marks]



A protective pad

An adjustable fastening

A sweater

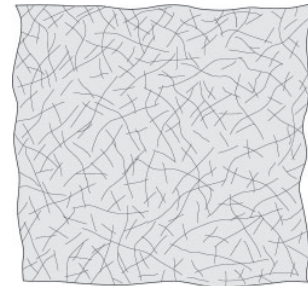
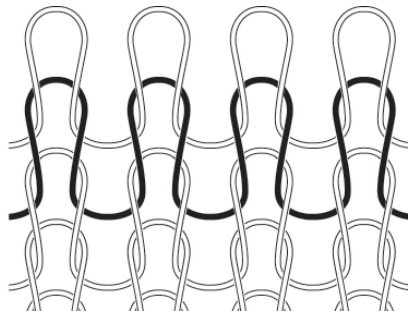
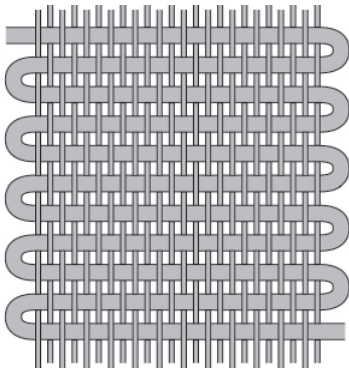
Question 2 continues on the next page

Turn over ▶



2 (b) (i) Circle the method of fabric construction for the sweater.

[1 mark]



2 (b) (ii) Give the name for the construction method used for the sweater.

[1 mark]

.....

2 (b) (iii) The sweater is made from 100% wool fibre.

Give **two** disadvantages of using wool for this cricket sweater.

[2 marks]

Disadvantage 1

.....
.....

Disadvantage 2

.....
.....

2 (b) (iv) Name a synthetic fibre which could be used instead of wool.

[1 mark]

.....



2 (c) List and explain **three** points for the cricket trouser fabric specification.

An example is given below.

[6 marks]

Specification point	Reason
Must be lightweight	So that the cricket player can move quickly.

2 (d) Give **one** method of adding a team logo to the clothing worn by the cricketer.

[1 mark]

.....

.....

15

Turn over for the next question

Turn over ▶



Question 3 is about product maintenance, suitability and fitness for purpose.

You are advised to spend about 10 minutes on this question.

- 3 Look at the surgeon in the photograph below. She is dressed to work in the operating room.



- 3 (a) Explain why the items of clothing worn by the surgeon are suitable for work in the operating room.

[3 marks]

.....

.....

.....

.....



3 (b) The blue fabric is made from a 67% polyester and 33% cotton blend.

Give **three** reasons why this is a suitable fibre blend for the clothing.

[3 marks]

- 1.....
- 2.....
- 3.....

3 (c) The surgeon's clothing needs washing after each operation.

3 (c) (i) Circle the correct wash care symbol shown below for washing this clothing.

[1 mark]



3 (c) (ii) Explain why this wash temperature is the most suitable for this clothing.

[2 marks]

-
-
-

3 (d) (i) The surgeon's clothing could be made from a disposable fabric instead of polyester/ cotton.

Name a suitable fabric construction for disposable fabric.

[1 mark]

-

3 (d) (ii) Give **two** advantages of disposable clothing for a surgeon.

[2 marks]

- 1.....
-
- 2.....
-

12

Turn over ▶



Question 4 is about production methods.

You are advised to spend about 20 minutes on this question.

- 4 The apron in the drawing below is selling well in a high street shop.



- 4 (a) Circle the correct method of production.

[1 mark]

Batch

Mass

One-off



4 (b) (i) Use notes and diagrams to explain how to make a pocket for the apron.

Marks will be given for:

- step-by-step instructions
- quality of notes and diagrams
- list of equipment needed.

[2 marks]

[2 marks]

[1 mark]

Turn over ▶



4 (b) (ii) Give **two** ways to neaten the edge of the apron frill.

[2 marks]

1.....

2.....

4 (b) (iii) List **three** different pieces of information that could be on the apron label.

[3 marks]

1.....

2.....

3.....

4 (c) (i) Some of the aprons are checked for faults during production.

Describe **three** faults that could be found in an apron.

[3 marks]

Fault 1.....

.....

Fault 2.....

.....

Fault 3.....

.....

4 (c) (ii) Give **two** reasons why it is important to make quality control checks.

[2 marks]

Reason 1.....

.....

Reason 2.....

.....



4 (d) List and explain how the use of computers can reduce textile production costs.

An example is given below.

[6 marks]

Computer Use	Explanation for cost reduction
Automatic steaming	Quicker to steam and lower labour costs.

22

Turn over for the next question

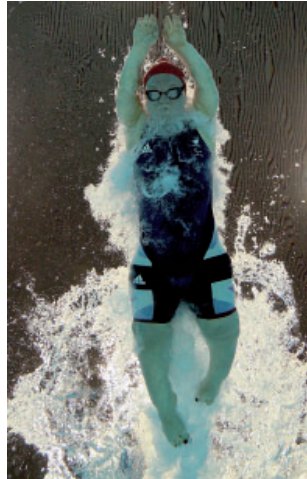
Turn over ▶



Question 5 is about product design and social, cultural, moral and environmental issues.

You are advised to spend about 20 minutes on this question.

5 (a) Look at the photographs below. Modern sportswear fabric can improve a competitor's performance.



5 (a) (i) Name and describe a modern high-technology sportswear fabric.

[4 marks]

.....

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5 (a) (ii) Explain how this fabric improves the competitor's performance.

[3 marks]

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5 (a) (iii) Give **two** reasons why some people are against the use of high-technology sportswear fabric in professional competitions.

[2 marks]

Reason 1

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Reason 2

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5 (b) The celebrity in the photograph below is wearing an eco-friendly dress.



5 (b) (i) Explain why some consumers prefer to buy sustainable fashion clothing.

[3 marks]

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Turn over ▶



Question 6 is about product design and health and safety.

You are advised to spend about 20 minutes on this question.

6 Look at the clothing worn by Elizabeth I and II in the photographs below.



Queen Elizabeth I (1533 – 1603)



Queen Elizabeth II

6 (a) Look at the design features of the clothing.

Identify **three** different design features and explain why they are appropriate for royal clothing.

An example is given below.

[6 marks]

Design feature	Explanation
Long flowing dress	Large area of fabric gives impact as it covers full length of body.

Turn over ▶



6 (b) Costume designers take inspiration from past and present clothing.
An actor needs a costume to play the part of a queen on stage.

6 (b) (i) List **four** design criteria for the costume for this role.

[4 marks]

- 1.....
- 2.....
- 3.....
- 4.....

6 (b) (ii) Name a suitable fastening for a stage costume.

[1 mark]

.....

6 (b) (iii) Explain the advantage of this fastening.

[1 mark]

.....

6 (c) (i) Describe **two** electronic components that could be included in a stage costume to add a special effect.

[2 marks]

- 1.....
-
- 2.....
-

6 (c) (ii) Give **two** possible dangers of using electronic components in the costume.

[2 marks]

- Danger 1
-
- Danger 2
-

END OF QUESTIONS

16



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