



Oxford Cambridge and RSA

Friday 25 May 2018 – Afternoon

GCSE DESIGN AND TECHNOLOGY
Textiles Technology

A575/01 Sustainability and Technical Aspects of Designing and Making



Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour 30 minutes



Candidate forename					Candidate surname				
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Centre number						Candidate number			
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Answer **all** the questions in Section A **and** Section B.
- Do **not** write in the barcodes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **80**.
- Your quality of written communication is assessed in the questions marked with an asterisk (*).
- This document consists of **20** pages. Any blank pages are indicated.

Section A

Answer **all** the questions.

You are advised to spend about 40 minutes on this section.

On questions 1–5 circle your answer.

1 Which of the following is a natural fibre?

- (a)** Acrylic
- (b)** Viscose
- (c)** Wool
- (d)** Polyester

[1]

2 Solar power is:

- (a)** A renewable energy source
- (b)** A non-renewable energy source
- (c)** A recyclable form of energy
- (d)** A non-recyclable form of energy

[1]

3 The eco-footprint of a garment is:

- (a)** Information about how to return a faulty garment
- (b)** How much it costs to manufacture a garment
- (c)** How much carbon dioxide is caused by the manufacture of a garment
- (d)** How to safely dispose of an unwanted garment

[1]

4 Polartec fleece is made from:

- (a)** Recycled fleece garments
- (b)** Recycled old clothes
- (c)** Recycled plastic bags
- (d)** Recycled plastic bottles

[1]

5 To rethink a product means to:

- (a) Take it apart
- (b) Re-design it
- (c) Use it again
- (d) Mend it when it is broken

[1]

6 Give the term used to describe the stage a product goes through from conception to decomposition.

..... [1]

7 Give the term that describes the second hand use of a product.

..... [1]

8 The symbol below stands for:



..... [1]

9 Which **one** word describes a country's traditions, skills, religions or beliefs?

..... [1]

10 Complete the following to give the meaning of the abbreviation ITCLC.

International **C**..... **L**..... **Code**

[1]

Decide whether the following statements below are **True** or **False**.

Tick [✓] the box to show your answer.

True **False**

[1]

[1]

[1]

[1]

[1]

11 Ergonomics is the study of a person's lifestyle.

12 Reusing garments is good for the environment.

13 Built-in obsolescence in products is environmentally friendly.

14 Hydropower is not sustainable.

15 Neoprene is a manmade fabric.

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Turn over for the next question

16 Fig. 1 shows a pair of viscose (rayon) trousers.

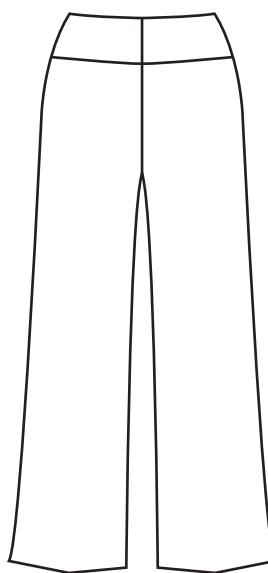


Fig. 1

(a) Give **four** performance characteristics of viscose (rayon) that make it a suitable fabric for the trousers.

1.....

2.....

3.....

4.....

[4]

(b) Viscose (rayon) is a regenerated fibre.

Explain what is meant by a regenerated fibre.

.....

.....

.....

.....

[2]

(c) State **two** advantages to the environment of regenerated fibres.

1.....

.....

2.....

.....

[2]

(d) The viscose (rayon) trousers shown in Fig. 1 are to be modified to be worn at a summer music festival.

In the space below, sketch a design for the modified trousers.

Your design must show:

- disposal of fullness
- pattern and colours
- a decorative technique.

Annotate your sketch to show all design, colours and construction details.

[6]

(e)* Some garments are manufactured abroad in sweatshops.

Explain why consumers may refuse to buy a garment manufactured abroad in a sweatshop.

- [6]

Section B

You are advised to spend 50 minutes on this section.

17 Fig. 2 shows a beach poncho.

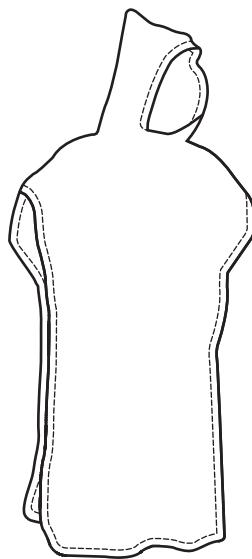


Fig. 2

(a) The beach poncho is made from cotton terry towelling fabric.

Explain why cotton terry towelling fabric is suitable for the poncho.

.....

.....

.....

.....

.....

.....

.....

.....

[4]

10

(b) Fig. 3 shows the seam used to make the poncho.

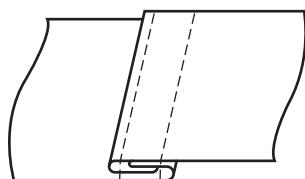


Fig. 3

(i) Name the seam shown in Fig. 3.

..... [1]

(ii) Give **two** reasons why this is a suitable seam for the poncho.

1

2

[2]

(c) State **two** methods of neatening the edge of the poncho.

1.....

2.....

[2]

(d)* Explain how computer applications can be used when designing and manufacturing textile products.

. [6]

18 Fig. 4 shows a shirt.

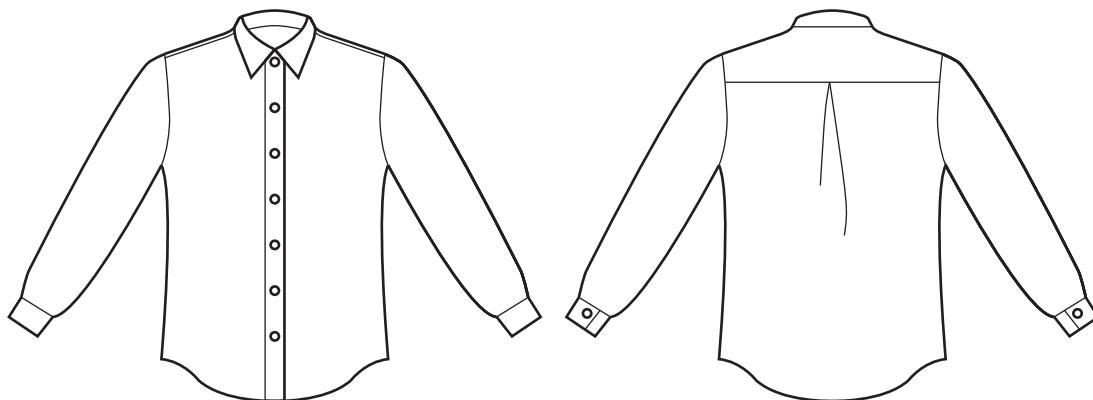


Fig. 4

Fig. 5 shows an incorrect pattern lay for the shirt.

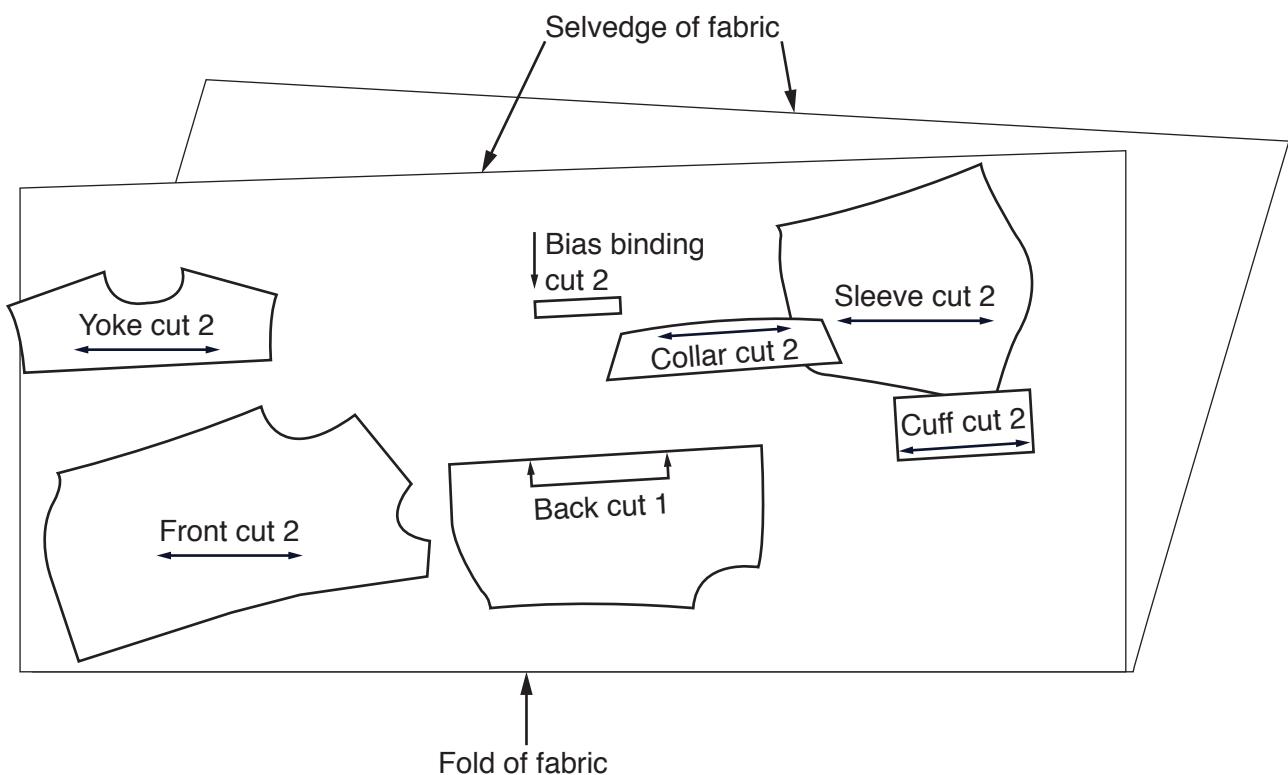


Fig. 5

13

(a) Identify **four** errors that have been made in the pattern lay shown in Fig. 5.

1.....

.....

3.....

.....

.....

[4]

(b) Explain **two** problems that could result from an incorrect pattern lay.

1.....

.....

[2]

2.....

.....

[2]

(c) Fig. 6 shows some equipment that could be used to transfer pattern markings to fabric.

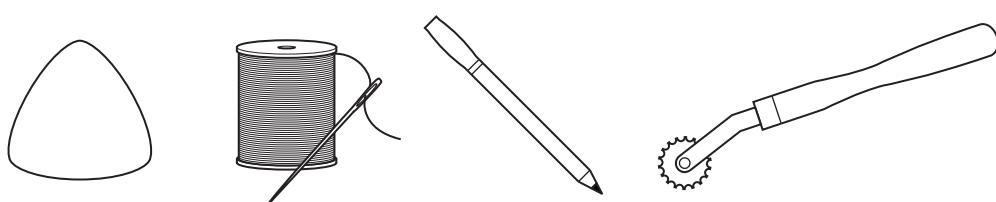


Fig. 6

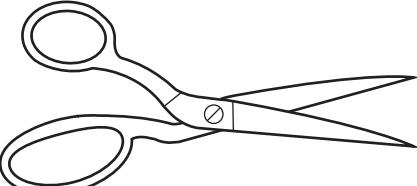
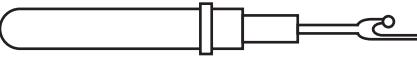
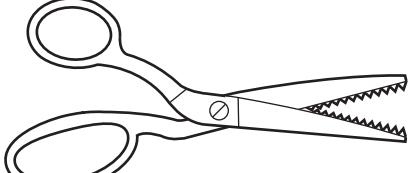
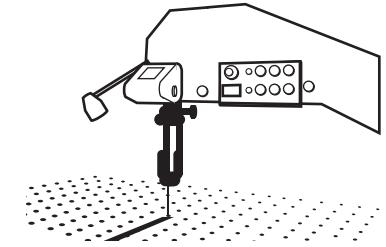
Name **two** methods of transferring pattern markings to fabric.

1.....

2.....

[2]

(d) (i) The table below shows a range of tools used for cutting.
 Name the tools shown.
 The first one has been done for you.

Tool	Name
	<u>Dressmaker's shears</u>
	_____
	_____
	_____

[3]

(ii) Give **one** advantage and **one** disadvantage of using industrial cutting tools rather than scissors when manufacturing in quantity.

Advantage

[1]

Disadvantage

[1]

15

19 Fig. 7 shows a child's school bag with an appliquéd decoration.



Fig. 7

(a) Describe, using notes and/or diagrams, how to work appliquéd.

[6]

16

(b) Give **three** components that could be used to add interest to the bag.

1.....

2.....

3.....

[3]

(c) Primary school children are encouraged to wear a hat in the playground to protect them from the sun.

The hat should:

- protect the child from the sun
- be suitable for boys and girls.

In the space below, sketch a design for a sun hat.

Annotate your sketch to show design, colour and construction details.

[6]

END OF QUESTION PAPER

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