

**Thursday 21 June 2012 – Afternoon**

**GCSE DESIGN AND TECHNOLOGY Textiles Technology**

**A574** Technical Aspects of Designing and Making

Candidates answer on the Question Paper.

**OCR supplied materials:**

None

**Other materials required:**

None

**Duration:** 1 hour 15 minutes



Candidate  
forename

Candidate  
surname

Centre number

Candidate number

**MODIFIED LANGUAGE**

**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. If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.
- Answer **all** the questions in Section A **and** Section B.
- Do **not** write in the bar codes.

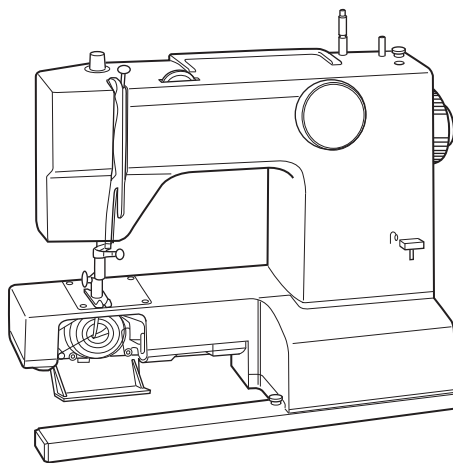
**INFORMATION FOR CANDIDATES**

- 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 **60**.
- Your quality of written communication is assessed in the questions marked with an asterisk (\*).
- This document consists of **12** pages. Any blank pages are indicated.

## Section A

Answer **all** questions.

- 1 Fig. 1 shows a basic sewing machine.





**Fig. 1**

- (a) List **four** checks that you should make before using a sewing machine.

- 1 .....
- 2 .....
- 3 .....
- 4 ..... [4]

- (b) Fabrics can be permanently joined using a sewing machine stitch.

Complete the table by naming the **two** stitches shown.

Machine Stitch	Name of stitch
	.....
	.....

[2]

(c) Free machine embroidery is a decorative technique worked using a sewing machine.

Complete the table to describe how to work free machine embroidery.

Stage	Method
Preparation of fabric	
Preparation of machine	
Finishing	

[6]

[Total: 12]

2 Fig. 2 shows a shirt made from a polyester cotton blend.



**Fig. 2**

**(a)** Explain why a blend of polyester and cotton fibres has been used to make the fabric for the shirt.

.....

.....

.....

.....

.....

..... [3]

**(b)** Interfacing has been used in the manufacture of the shirt.

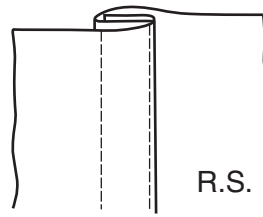
**(i)** Identify **one** place on the shirt where interfacing should be used.

..... [1]

**(ii)** Give **one** reason for using interfacing.

..... [1]

(c) Fig. 3 shows the seam used to make the shirt.



**Fig. 3**

Name the seam shown in Fig. 3.

..... [1]

(d) The shirt is fastened using buttons and buttonholes.

Describe how to make the buttonholes, using notes and/or diagrams.

[6]

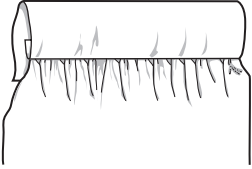
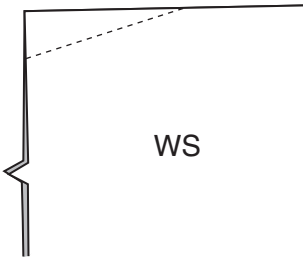
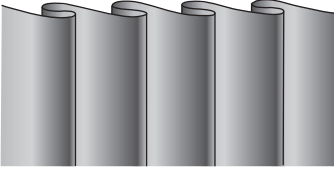
[Total: 12]

Turn over

**3 (a)** Complete the chart by naming the methods of disposal of fullness shown.

Give an example of where you could use each method.

The first one has been done for you.

Disposal of fullness	Name of Method	Use
	gathers	At the bottom of a sleeve where it goes into the cuff
		
		

[4]

**(b)** Pattern markings for disposal of fullness need to be transferred from the pattern pieces to the fabric.

State **two** methods the textile industry uses to transfer pattern markings from the pattern pieces to the fabric.

1 .....

2 ..... [2]

Fig. 4 shows a range of soft toys.



**Fig. 4**

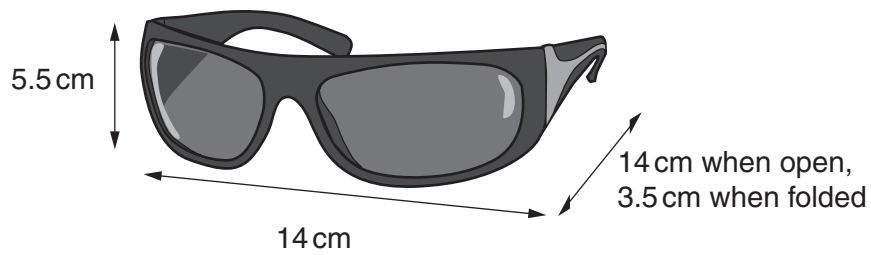
**(c)\*** Explain the difference between quality of design and quality of manufacture. Refer to soft toys in your answer.

[6]

**Section B**

Answer **all** questions.

- 4 Fig. 5 shows a pair of sunglasses.



**Fig. 5**

The manufacturer requires a fabric case for the sunglasses to be made.

The case should:

- protect the sunglasses
- be easy to carry
- be inexpensive to manufacture.

- (a) In the space below sketch a design for the sunglasses case.

Annotate your sketch to show design and construction details and how it meets the specification.



- (b) In the space below, draw the pattern pieces needed to make the sunglasses case you designed in part (a).

[4]

- (c) Give **two** reasons for using pattern pieces when manufacturing textiles products.

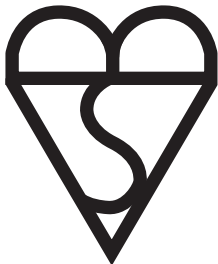
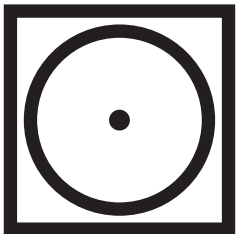

1 .....

2 ..... [2]

[Total: 12]

## 5 (a) Complete this chart.

Name the symbols shown. State what each symbol means and give the name of a product they could be found on.

Symbol	Name or meaning	Product found on
		
		
		

[6]

[6]

**[Total: 12]**

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines, providing a guide for letter height and placement. The lines are evenly spaced across the entire page, which is otherwise blank.

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