

<b>Candidate forename</b>						<b>Candidate surname</b>					
<b>Centre number</b>						<b>Candidate number</b>					

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**GCSE**

**A574**

**DESIGN AND TECHNOLOGY**

**Textiles Technology**

**Technical Aspects of Designing and Making**

**THURSDAY 21 JUNE 2012: Afternoon**

**DURATION: 1 hour 15 minutes**  
**plus your additional time allowance**

**MODIFIED ENLARGED**

**Candidates answer on the Question Paper.**

**OCR SUPPLIED MATERIALS:**

**None**

**OTHER MATERIALS REQUIRED:**

**None**

**READ INSTRUCTIONS OVERLEAF**

## **INSTRUCTIONS TO CANDIDATES**

- **Write your name, centre number and candidate number in the boxes on the first page. 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.**

## **INFORMATION FOR CANDIDATES**

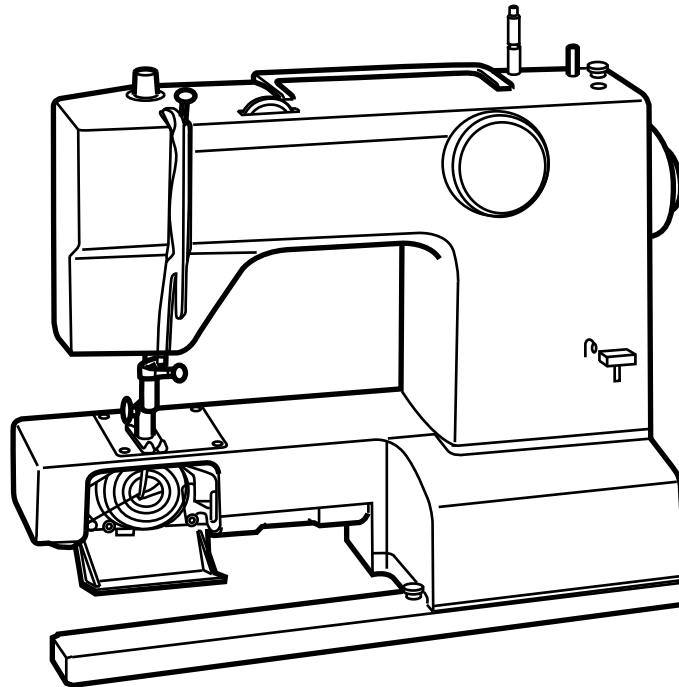
- **The number of marks is given in brackets [ ] at the end of each question or part question.**
- **The total number of marks for this paper is 60.**
- **Your quality of written communication is assessed in the questions marked with an asterisk (\*).**

## **SECTION A**

**Answer ALL questions.**

- 1 Fig. 1 shows a basic sewing machine.**

**Fig. 1**



- (a) List FOUR checks that should be carried out before using a sewing machine.**

- 1** \_\_\_\_\_
- 2** \_\_\_\_\_
- 3** \_\_\_\_\_
- 4** \_\_\_\_\_

**[4]**

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

**Complete the table below by naming the TWO stitches shown.**

<b>MACHINE STITCH</b>	<b>NAME</b>
<b>1</b>  - - - - -	<b>1</b>  _____ _____
<b>2</b>  / \ / \ / \ / \ / \ / \	<b>2</b>  _____ _____

**[2]**

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

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

<b>STAGE</b>	<b>METHOD</b>
<b>1</b>  <b>PREPARATION OF FABRIC</b>	<b>1</b>
<b>2</b>  <b>PREPARATION OF MACHINE</b>	<b>2</b>
<b>3</b>  <b>FINISHING</b>	<b>3</b>

**[Total: 12]**

**[6]**

- 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.**

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**[3]**

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

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

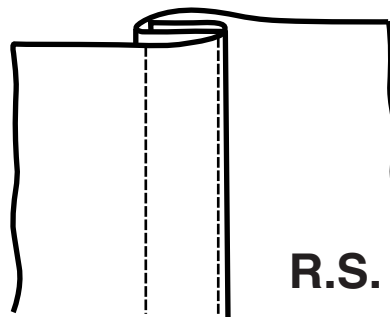
\_\_\_\_\_ **[1]**

**(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, using notes and/or diagrams, how to work the buttonholes.**

**[6]**

**[Total: 12]**



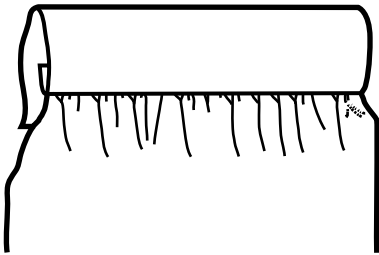

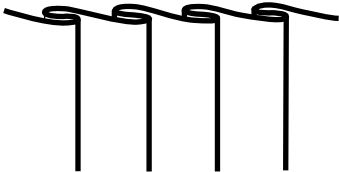
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**TURN OVER FOR QUESTION 3**

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

Give an example of where each method could be used.

The first one has been done for you.

DISPOSAL OF FULLNESS	NAME OF METHOD	USE
<p>1</p> 	<p>1</p> <p>gathers</p>	<p>1</p> <p>At the bottom of a sleeve where it goes into the cuff</p>
<p>2</p> 	<p>2</p>	<p>2</p>
<p>3</p> 	<p>3</p>	<p>3</p>

[4]

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

State TWO methods used in the textile industry 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, with reference to soft toys, the difference between quality of design and quality of manufacture.**

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[6]

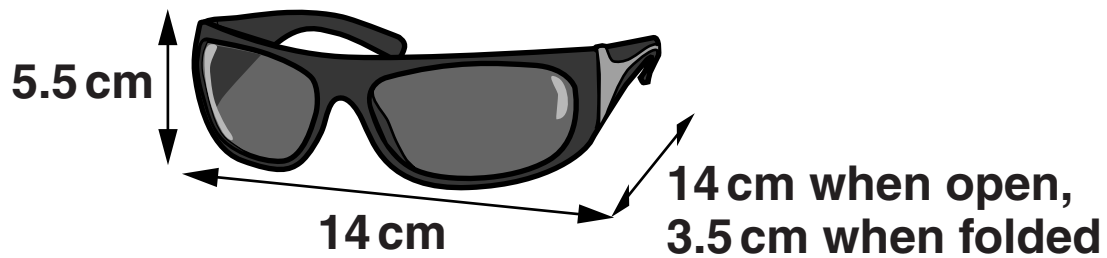
[Total: 12]

## **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 and describe a design for the sunglasses case.**

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

**[6]**

**(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.**

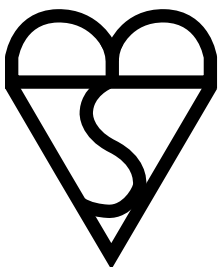
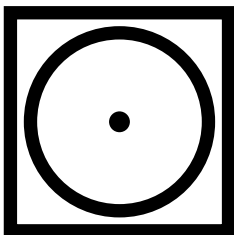

**1** \_\_\_\_\_

**2** \_\_\_\_\_ **[2]**

**[Total: 12]**

**5 (a) Complete the chart below.**

**Name the symbols shown, state what they mean and suggest a product they could be found on.**

<b>SYMBOL</b>	<b>NAME OR MEANING</b>	<b>PRODUCT FOUND ON</b>
<b>1</b> 	<b>1</b>	<b>1</b>
<b>2</b> 	<b>2</b>	<b>2</b>
<b>3</b> 	<b>3</b>	<b>3</b>

**[6]**

[illegible]

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[6]

[Total: 12]

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