

Friday 1 February 2013 – Morning

GCSE DESIGN AND TECHNOLOGY
Textiles Technology

A574/01 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	

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.

2

SECTION A

Answer **all** questions.

- 1 Fig. 1 shows an apron made from PVC coated cotton fabric.

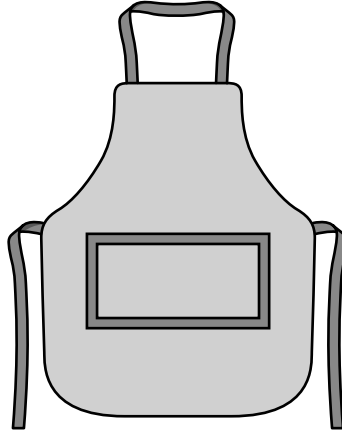


Fig. 1

- (a) Give **three** reasons why PVC coated cotton fabric is suitable for the apron.

- 1
-
- 2
-
- 3
-
- [3]

- (b) The apron is to be sold as part of a textile kitchen set.

Name **two** other textile items that could be included in the kitchen set.

- 1
- 2
- [2]

- (c) State **two** pieces of information that should be included on the labels attached to the items in the kitchen set.

- 1
- 2
- [2]

3

(d) Fig. 2 shows the pocket pinned and tacked in place on the apron.

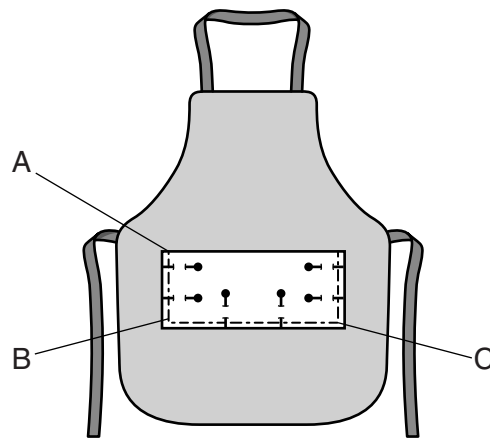
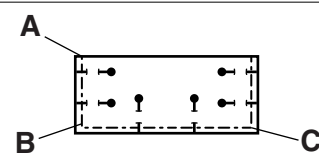


Fig. 2

Complete the chart below to show how to stitch from point **A** to point **C** using a sewing machine. Include details of how to turn the corner at point **B**.

Point	Description
Stage 1	Pin and tack pocket in place. 
Stage 2	
Stage 3	
Stage 4	
Stage 5	
Stage 6	

[5]

[Total: 12]

Turn over

4

2 Fig. 3 shows a hotel bedroom.



Fig. 3

(a) Chemical finishes are applied to fabrics to improve their performance.

Identify **three textile** items in the hotel room.

Name a different chemical finish that could be used on each one.

Give a different reason why each would be useful.

Textile item 1

Chemical finish

Reason

.....

.....

Textile item 2

Chemical finish

Reason

.....

.....

Textile item 3

Chemical finish

Reason

.....

.....

5

- (b) Roller printing is used to print the two colour design on the hotel curtains.

Describe the industrial process of roller printing a two colour design onto fabric.

.....

.....

.....

.....

.....

.....

.....

..... [4]

- (c) Explain why it is important to consider aesthetics when designing a hotel bedroom.

.....

.....

.....

..... [2]

[Total: 12]

3 Modern materials are developed with special performance characteristics.

(a) Complete the table below.

State **one** special performance characteristic of each modern material.

Name **one** different textile product made using each modern material.

The first one has been done for you.

Modern material	Special performance characteristic	Product made using the modern material
Lycra ®	Very elastic, stretchy fibres	swimsuit
Kevlar ®		
Nomex ®		
GORE-TEX ® Fabric		

[6]

(b)* Describe ways in which CAD / CAM processes can be used to control accuracy when designing and making textile products.

Marks will be awarded for the quality of written communication in your answer.

..... [6]

[Total: 12]

8

SECTION B

Answer **all** questions.

4 Children learn through play.

A textiles manufacturer is launching a range of educational toys for pre-school children.

The toys should be:

- educational
- appealing
- multi-use.

(a) In the space below sketch a design for an educational toy for a pre-school child.

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

[6]

(b)* Discuss the advantages and disadvantages of the just in time (JIT) system for manufacturing the educational toy.

Marks will be awarded for the quality of written communication in your answer.

[6]

[Total: 12]

- 5 Fig. 4 shows a dress made using a decorative technique.

The dress has a zip fastening at the back.

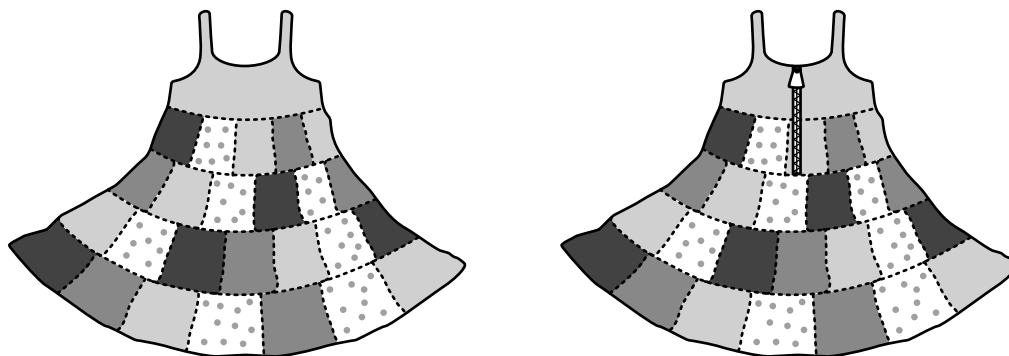


Fig. 4

- (a) (i) Name the decorative technique used to make the dress.

..... [1]

- (ii) Give **two** reasons why the decorative technique named in (a)(i) is considered to be environmentally friendly.

1

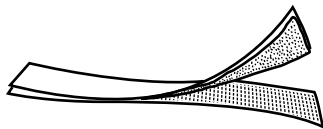
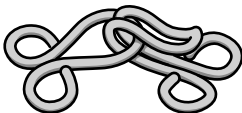
.....

2

.....

[2]

- (b) Complete the table below by naming the fastenings shown.

Fastening	Name
	
	
	

[3]

11

- (c) The dress shown in Fig. 4 has a zip fastening.

Describe, using notes and/or diagrams, how to insert a zip into the centre back seam of the dress.

[6]

[Total: 12]

END OF QUESTION PAPER

