

**GENERAL CERTIFICATE OF SECONDARY EDUCATION
 D&T: TEXTILES TECHNOLOGY**

1958/04

Paper 4 (Higher Tier)

MONDAY 9 JUNE 2008

Afternoon
 Time: 1 hour 15 minutes

Candidates answer on the question paper
Additional materials (enclosed): Insert

Additional materials (required):
 None



Candidate Forename

Candidate Surname

Centre Number

Candidate Number

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.

INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **50**.
- The marks allocated and the spaces provided for your answers are a good indication of the length of answers required.
- Question 5, product analysis, is based on the theme 'Funky Footwear'.

FOR EXAMINER'S USE	
1	
2	
3	
4	
5	
TOTAL	

This document consists of **12** printed pages and an insert.

- 1 Fig. 1 shows a woven rug manufactured on an automated loom which is part of an in-line assembly system.

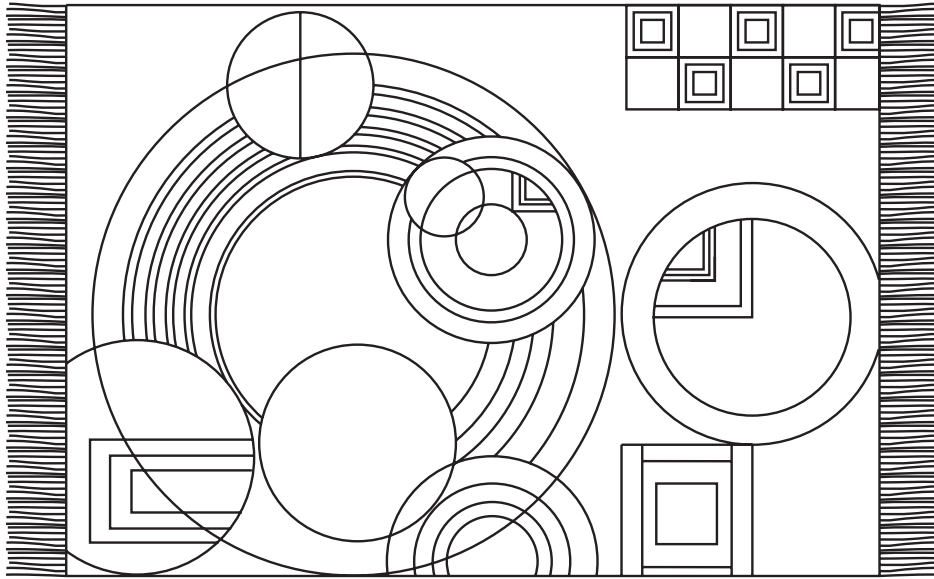


Fig. 1

- (a) (i) Give **three** advantages of an in-line assembly system.

Advantage 1
.....[1]

Advantage 2
.....[1]

Advantage 3
.....[1]

- (ii) State **one** disadvantage of this type of system.

Disadvantage
.....[1]

(b) Technical textiles are manufactured for their performance and functional properties rather than their aesthetic characteristics.

Describe the use of **two** technical textiles.

1
.....
.....
.....[2]

2
.....
.....
.....[2]

(c) Textile materials can be made from natural renewable resources.

Name **two** natural renewable resources.

1[1]
2[1]

[Total: 10]

2 Product Analysis

The colour insert shows a mood board reflecting the theme of 'Funky Footwear'.

(a) Using the mood board identify **three** pre-manufactured components.

1[1]

2[1]

3[1]

(b) The mood board includes a walking shoe also shown in Fig. 2.

The upper part of the shoe is made from Gore-tex fabric.



Fig. 2

Give **two** reasons why Gore-tex is a suitable fabric for the shoe.

Reason 1
.....[1]

Reason 2
.....[1]

(c) The upper part of the walking shoe has been constructed using a number of layered sections.

Explain why the walking shoe has been made in this way.

.....

.....

.....

.....[2]

(d) The mood board also includes a 'biker boot'.

The boot design is to be modified.

Using notes and sketches show how the boot design could be developed.



[3]

[Total: 10]

3 A sportswear manufacturer is considering extending its range of products to include gloves.

(a) In the space below use sketches and notes to show a design for a glove that addresses the following points:

- multi functional;
- ease of use;
- eye-catching.

(b) Explain how safety features could be included in a glove design.

.....
.....
.....
.....[2]

(c) Some gloves are made from microfibres.

Explain why microfibres are suitable.

.....
.....
.....
.....[2]

[Total: 10]

4 Fig. 3 shows a batik wall hanging.



Fig. 3

(a) Batik is a form of resist dyeing.

Explain, using notes and diagrams, the stages in working a **two** colour batik sample.

(b) Technological developments have produced a range of smart materials.

Identify and explain **two** uses of smart materials in textile products.

1
.....
.....
.....[2]

2
.....
.....
.....[2]

[Total: 10]

5 Fig. 4 shows a reversible waistcoat made from a pile fabric, lined with polyester satin.

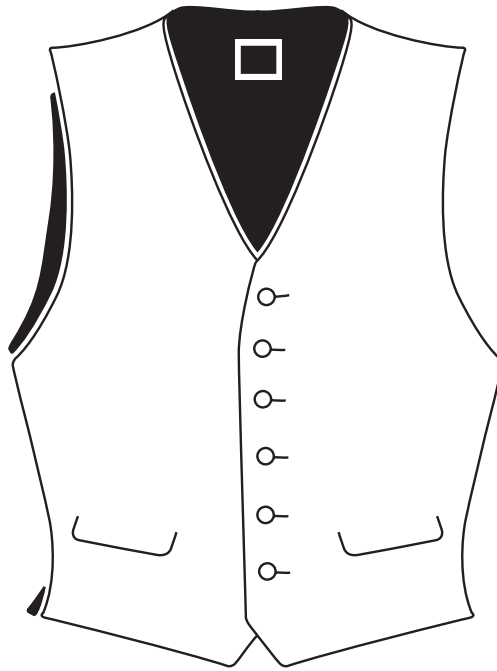


Fig. 4

(a) Explain **two** functional properties of polyester satin that make it suitable for the reversible waistcoat.

1

.....

.....

.....[2]

2

.....

.....

.....[2]

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