

**GENERAL CERTIFICATE OF SECONDARY EDUCATION**

**DESIGN AND TECHNOLOGY**

**1958/04**

**Textiles Technology**

Paper 4 (Higher Tier)

Candidates answer on the Question Paper

**OCR Supplied Materials:**

None

**Other Materials Required:**

None

**Tuesday 22 June 2010**

**Morning**

**Duration: 1 hour 15 minutes**



\* 1 9 5 8 0 4 \*

Candidate  
Forename

Candidate  
Surname

Centre Number

Candidate Number

**MODIFIED LANGUAGE**

**INSTRUCTIONS TO CANDIDATES**

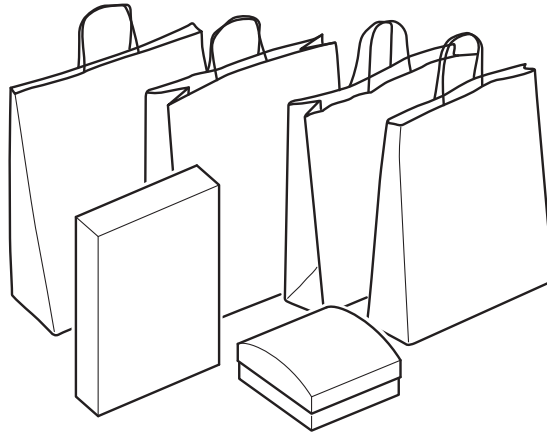
- Write your name clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your Candidate Number, Centre Number and question number(s).

**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 **50**.
- The marks allocated and the spaces provided for your answers are a good indication of the length of answers required.
- Question 2, product analysis, is based on the theme '**Sportswear**'.
- This document consists of **12** pages. Any blank pages are indicated.



1



- (a) Textile products are packaged in a variety of ways.  
Identify **two** ways of reducing the impact of packaging on the environment.

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

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

- (b) Many British textile companies choose to manufacture their products overseas.  
Describe **two disadvantages** of this decision.

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

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

- (c) The continual flow production system is a popular method of textiles manufacture. Describe **two** advantages of the continual flow system of manufacture.

Advantage 1 .....

.....

.....

.....

..... [2]

Advantage 2 .....

.....

.....

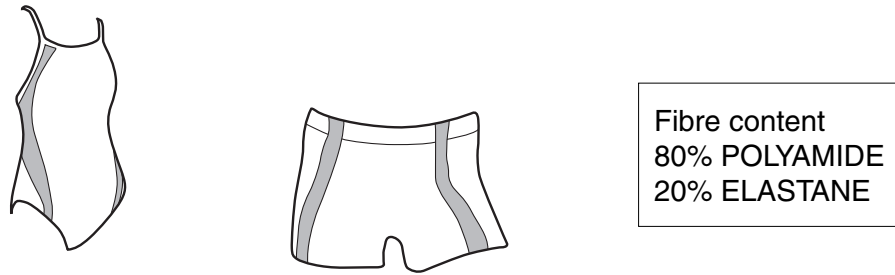
.....

..... [2]

[Total: 10]

## 2 Product Analysis

(a) Fig. 1 shows swimwear that contains elastane fibres.



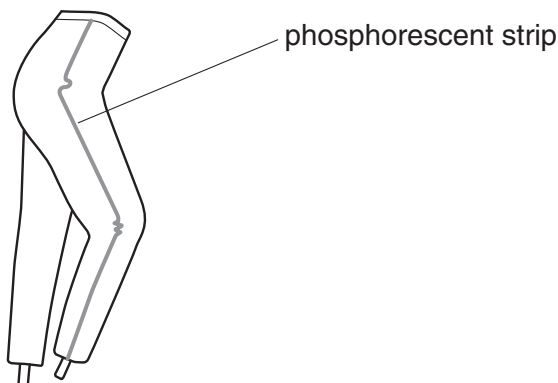
**Fig. 1**

Give **two** reasons why elastane fibres have been included in the swimwear fabric.

Reason 1 ..... [1]

Reason 2 ..... [1]

(b) Fig. 2 shows a pair of running trousers.



**Fig. 2**

State **two** advantages of the phosphorescent strip down the leg.

Advantage 1 ..... [1]

Advantage 2 ..... [1]

- (c) Fig. 3 shows a tracksuit top made from ripstop nylon.



**Fig. 3**

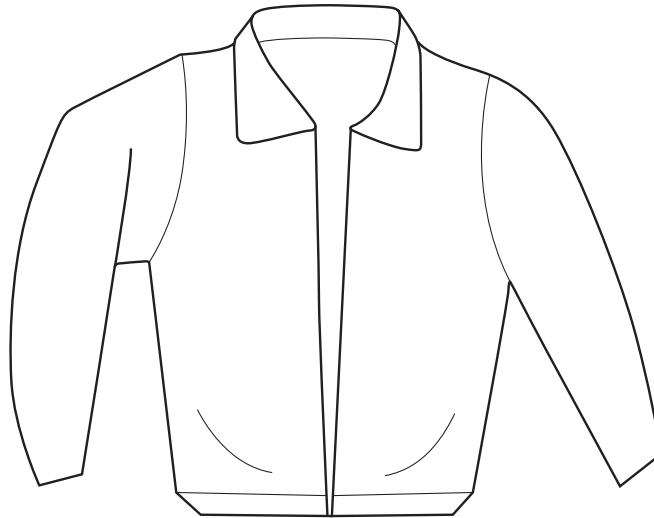
Explain why this is a suitable fabric to use for the tracksuit top.

.....

.....

..... [2]

- (d) The top is to be modified for winter sports.  
Using notes and sketches show how the top could be modified.



[4]

[Total: 10]

**3** A textile bag manufacturer wishes to upgrade its range of sports bags.

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

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

(b) A prototype of the sports bag is to be made.

Explain the **benefits** to the manufacturer of testing a prototype before volume production.

.....

.....

.....

.....

.....

..... [4]

[Total: 10]

- 4 Fig. 4 shows an animal bag carrier made from quilted fabric.



**Fig. 4**

- (a) Give **one** benefit of using a quilted fabric for the animal bag carrier.

..... [1]

- (b) Describe using notes and diagrams, how to quilt fabric.



- (c) The fabric is to be made from microencapsulated fibres.  
Explain **two** ways in which this could improve the animal bag carrier.

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

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

[Total: 10]

- 5 Fig. 5 shows a belt made from hessian. Hessian is a woven fabric made from jute.

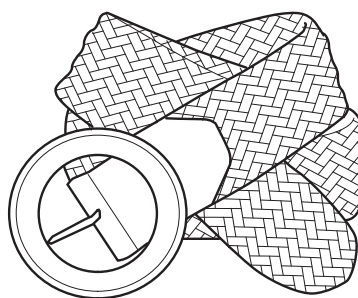


Fig. 5

- (a) Explain **three** reasons why jute is considered to be an environmentally friendly fibre.

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

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

Reason 3 .....  
.....  
.....  
..... [2]

Fibre and fabric technological developments have produced a range of technical textiles with many uses.

**(b)** Explain what is meant by the term technical textiles using **two** non garment examples.

.....

.....

.....

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.....

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.....

.....

..... [4]

**[Total: 10]**

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