

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



Candidate Forename		Candidate Surname	
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Centre Number						Candidate Number				
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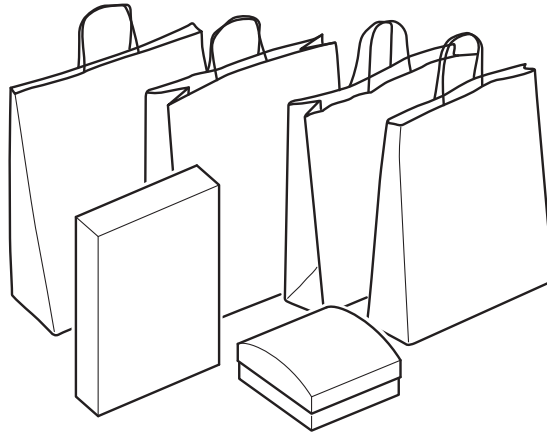
INSTRUCTIONS TO CANDIDATES

- 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

.....

.....

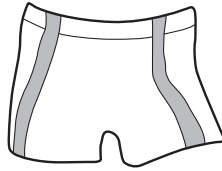
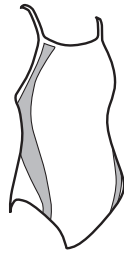
.....

..... [2]

[Total: 10]

2 Product Analysis

- (a) Fig. 1 shows swimwear.
The swimwear contains elastane fibres.



Fibre content 80% POLYAMIDE 20% ELASTANE

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.

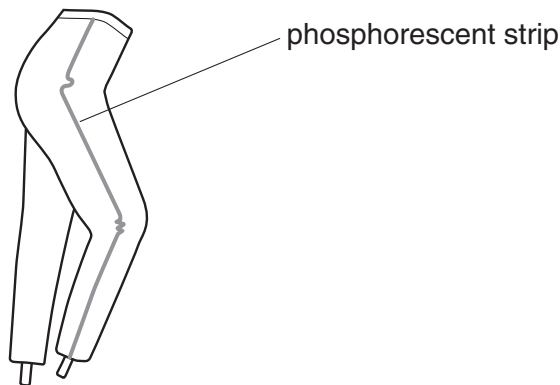


Fig. 2

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

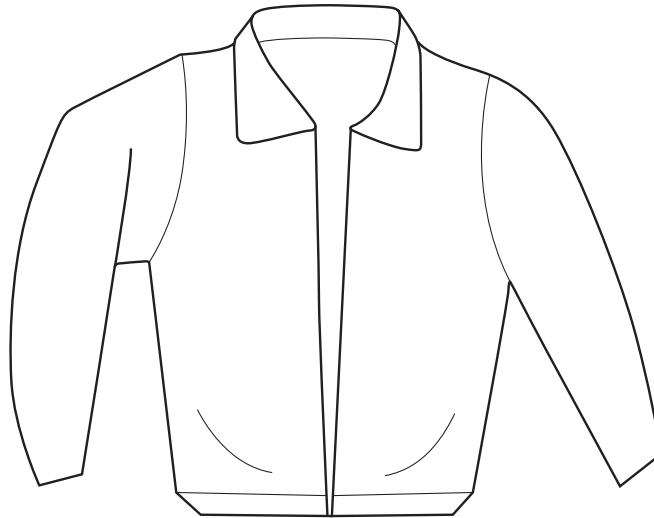
Explain why this is a suitable fabric to use for the tracksuit top.

.....

.....

..... [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.

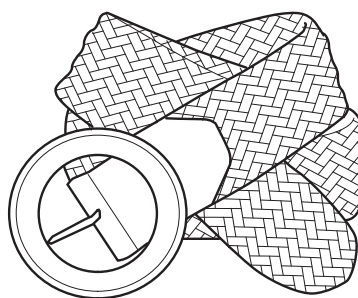


Fig. 5

- (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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..... [4]

[Total: 10]

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